```
!!SEQUENCE_LIST 1.0
! FINDPATTERNS on EST:* allowing 0 mismatches
1

1  CGGGCCAGTGAGGGTATTTATCACTGGGTTGGCCN[]AAGGCCTCTAGTTTAGCCAGTN[]CAACAATATAGTAATTA
```

```
> O <
O| |O    IntelliGenetics
> O <

Quest - Quick User-directed Expression Search Tool
Release 5.4

              -- Outline of search "19_21_23" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector09ln.key":
     19_21_23 (NA) ID '19_21_23 NA preliminary pattern
     followed by
     cgggccagtgaggtgtattatcactggttggcc
  1
  2     any number of any character
  2     aaggcctctagtttagccagt
  2     any number of any character
  2     caacaatatagtaattatccgctcact

Selected files:

     File : 19_21_23ge.seq

              -- Output Parameters --

Format Options:                       File Options:
Nucleic acid code matching   Exact    Indirect file             No
Find non-matching hits only  No       Sequence or key file      No
Report key used              Yes      List of hits              Yes
Note position of hit         Yes      Hit display               Yes
Display full annotations     Yes      Name and annotations      Yes
Sequence context             50

              -- Run Parameters --

Run mode                     Batch
Time to start comparison     now
Notify at end of run         No

-------
1 found in sequence:
a82336 ; TOIG of: a82336    check: 9527    from: 1  to: 786
(from "19_21_23ge.seq")
TOIG of: a82336 check: 9527 from: 1  to: 786

LOCUS       A82336      786 bp    DNA              PAT        21-JAN-2000
DEFINITION  Sequence 20 from Patent WO9856906.
ACCESSION   A82336
VERSION     A82336.1  GI:6732120
KEYWORDS    .
SOURCE      unidentified.
  ORGANISM  unidentified
            unclassified.
REFERENCE   1  (bases 1 to 786)
  AUTHORS   Nielsen,B.B. and Thoegersen,H.C.
  TITLE     TRIMERISING MODULE
  JOURNAL   Patent: WO 9856906-A 20 17-DEC-1998;
            NIELSEN BETTINA BRYDE (DK); THOEGERSEN HANS CHRISTIAN (DK)
FEATURES             Location/Qualifiers
     source          1..786
                     /organism="unidentified"
                     /db_xref="taxon:32644"
BASE COUNT      187 a      211 c      227 g      161 t
ORIGIN
A82336    Length: 786   September 10, 2001 07:28  Type: N  Check: 9527  ..
Found using '19_21_23' (spector09ln.key)
```

```
434  CTCCTTCCACCCTGTCGTCGCTATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                                                    484
                                                                   |‾‾

494  AGGGTGATTATTCACTGGTTGGCCTGGTATCAGCAGAAGCCAGGGAAAGCCCCTAAACTCC

554  TGATCTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAAGGTTCAGCAGTGGAT

614  CTGGGACAGAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTTGCAACTTATT

674  ACTGCCAACAATATATAGTAATTATCCGCTCACTTTTCGGCGGAGGGACCAAGGCTGGAGATCA
                                                    705

734  AACGTGGGCGCCGCAGAACAAAA
...
```

```
-------
1 match found in sequence:
af048774 ; TOIG of: af048774    check: 8479    from: 1  to: 732
(from "19_21_23ge.seq")
TOIG of: af048774 check: 8479  from: 1  to: 732

LOCUS       AF048774      732 bp    mRNA             PRI        31-DEC-1998
DEFINITION  Homo sapiens clone H6 anti-HER3 scFv mRNA, partial cds.
ACCESSION   AF048774
VERSION     AF048774.1  GI:2911499
KEYWORDS    .
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 732)
  AUTHORS   Merchant,A.M., Zhu,Z., Yuan,J.Q., Goddard,A., Adams,C.W.,
            Presta,L.G. and Carter,P.
  TITLE     An efficient route to human bispecific IgG
  JOURNAL   Nat. Biotechnol. 16 (7), 677-681 (1998)
  MEDLINE   98325681
REFERENCE   2  (bases 1 to 732)
  AUTHORS   Goddard,A., Yuan,J.Q., Zhu,Z. and Carter,P.
  TITLE     Direct Submission
  JOURNAL   Submitted (17-FEB-1998) Molecular Oncology, Genentech Inc, 1 DNA
            Way, South San Francisco, CA 94080, USA
FEATURES             Location/Qualifiers
     source          1..732
                     /organism="Homo sapiens"
                     /db_xref="taxon:9606"
                     /clone="H6"
     CDS             <1..>732
                     /codon_start=1
                     /product="anti-HER3 scFv"
                     /protein_id="AAC98735.1"
                     /db_xref="GI:2911500"
                     /translation="QVQLVQSGGLVQHGGSLRLSCAASGFTFSSYEMNWVRQAPGKG
                     LEWVSGISGSGGSTYYADSVKGRFTISRDNSKNTLYLQMNRLRAEDTAVYCARDNGW
                     ELITDWYFDLWGRGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTIYC
                     RASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPD
                     DFATYYCQQYSNYPLTFGGGTKLEIK"
BASE COUNT      169 a      180 c      220 g      163 t
ORIGIN
AF048774  Length: 732   September 10, 2001 07:28  Type: N  Check: 8479  ..
Found using '19_21_23' (spector09ln.key)
...
```

```
431  CTCCTTCCACCCTGTCTGCAATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                                                481

491  AGGGTATTTATCACTGGTTGGCCTGGTATCACCAGAAGCCAGGGAAAGCCCCTAAACTCC

551  TGATCTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAAGGTTCAGCGGCAGTGGAT

611  CTGGGACAGAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGAGTTTGCAACTTATT

671  ACTGCCAACAATATAGTAATTATCCCTCACTTTCGGCGGAGGGACCAAGCTGGAGATCA
                                                       702

731  AA
```

```
1 match found in sequence:
  ar036444 ; TOIG of: ar036444
  (from "19_21_23ge.seq")
TOIG of: ar036444  check: 449  from: 1  to: 324

LOCUS       AR036444          324 bp    DNA           PAT     29-SEP-1999
DEFINITION  Sequence 29 from patent US 5872215.
ACCESSION   AR036444
VERSION     AR036444.1  GI:5953112
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 324)
  AUTHORS   Osbourne,J.Katharine, Allen,D.Julie and McCafferty,J.Gerald.
  TITLE     Specific binding members, materials and methods
  JOURNAL   Patent: US 5872215-A 29 16-FEB-1999;
FEATURES             Location/Qualifiers
     source          1..324
                     /organism="unknown"
BASE COUNT       80 a      90 c      77 g      77 t
ORIGIN
Found using '19_21_23' (spector09ln.key)
Length: 324    September 10, 2001 07:28  Type: N  Check: 449  ..
```

```
20   CTCCTTCCACCCTGTCTGCAATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                                                70

80   AGGGTATTTATCACTGGTTGGCCTGGTATCAGCAGAAGCCAGGGAAAGCCCCTAAACTCC

140  TGATCTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAAGGTTCAGCGGCAGTGGAT

200  CTGGGACAGAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGAGTTTGCAACTTATT

260  ACTGCCAACAATATAGTAATTATCCGCTCACTTTCGGCGGAGGGACCAAGCTGGAGATCA
                                                              291

320  AACGT
```

(handwritten annotations: 5,872,215; 6 23 →; 19 →; 21 →; 1)

```
1 match found in sequence:
  hsa225093 ; TOIG of: hsa225093
  (from "19_21_23ge.seq")
TOIG of: hsa225093  check: 1183  from: 1  to: 807

LOCUS       HSA225093         807 bp    mRNA          PRI     24-APR-1998
DEFINITION  Homo sapiens mRNA for single-chain antibody, complete cds (scFv2).
ACCESSION   AJ225093
VERSION     AJ225093.1  GI:3090427
KEYWORDS    heavy chain; immunoglobulin; light chain; variable region.
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 807)
  AUTHORS   Martineau,P.
  TITLE     Direct Submission
  JOURNAL   Submitted (23-MAR-1998) Martineau P., Biotechnology, Institut
            Pasteur, 25 rue du Dr. Roux, 75015, PARIS
REFERENCE   2  (bases 1 to 807)
  AUTHORS   Martineau,P., Jones,P. and Winter,G.
  TITLE     Expression of an antibody fragment at high levels in the bacterial
            cytoplasm
  JOURNAL   Unpublished
FEATURES             Location/Qualifiers
     source          1..807
                     /organism="Homo sapiens"
                     /db_xref="taxon:9606"
                     /rearranged
     CDS             1..807
                     /note="scFv2"
                     /codon_start=1
                     /product="immunoglobulin"
                     /protein_id="CAA12399.1"
                     /db_xref="GI:3090428"
                     /translation="MAQVQLQESGPGLVKPSETLSLTCVSGGSISSYHWSWIRQPPG
                     KGLEWIGYIYSGSTNYNPSLKNRVTISVDTSKNQFSLNLRSVTAADTAVYYCARGTY
                     GPAGDAFDIWGQGTTVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITC
                     RASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPD
                     DFATYYCQQYSNYPLTFGGGTKLEIKRAAAEQKLISEEDLNGAAHHHHHH"
     V_region        7..366
                     /product="variable region of Ig heavy chain"
     misc_feature    367..411
                     /note="linker"
     V_region        412..732
                     /product="variable region of Ig light chain"
     misc_feature    745..777
                     /note="c-myc tag"
BASE COUNT      189 a     222 c     225 g     171 t
ORIGIN
Found using '19_21_23' (spector09ln.key)
Length: 807    September 10, 2001 07:28  Type: N  Check: 1183  ..
```

```
431  CTCCTTCCACCCTGTCTGCAATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                                                481

491  AGGGTATTTATCACTGGTTGGCCTGGTATCACCAGAAGCCAGGGAAAGCCCCTAAACTCC

551  TGATCTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAAGGTTCAGCGGCAGTGGAT

611  CTGGGACAGAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGAGTTTGCAACTTATT
```

```
671    ACTGCCAACAATATAGTAATTATCCGGCTCACTTTCGGCGGGCGGGGGACCAAGCTGGAGATCA
                                      702

731    AACGTGCCGCGCGCAGAACAAAA
...

-------
1 match found in sequence:
hsscfvq10 ; TOIG of: hsscfvq10
(from "19_21_23ge.seq")
TOIG of: hsscfvq10  check: 5173  from: 1  to: 732


LOCUS       HSSCFVQ10      732 bp      mRNA            PRI      08-NOV-1997
DEFINITION  H.sapiens mRNA for single-chain Fv fragment, isolate C1q/10.
ACCESSION   Y13057
VERSION     Y13057.1  GI:2077996
KEYWORDS    scFv gene; single-chain Fv fragment.
SOURCE      human
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 732)
AUTHORS     Kontermann,R.E., Wing,M.G. and Winter,G.
TITLE       Complement recruitment using bispecific diabodies
JOURNAL     Nat. Biotechnol. 15 (7), 629-631 (1997)
MEDLINE     97362799
REFERENCE   2  (bases 1 to 732)
AUTHORS     Kontermann,R.E.
TITLE       Direct Submission
JOURNAL     Submitted (06-MAY-1997) R.E. Kontermann, IMT, Universitt Marburg,
            Emil-Mannkopff-Str. 2, 35033 Marburg, FRG
FEATURES             Location/Qualifiers
     source          1..732
                     /organism="Homo sapiens"
                     /isolate="C1q/10"
                     /specific_host="H.sapiens"
                     /db_xref="taxon:9606"
                     /dev_stage="adult"
                     /lab_host="E.coli"
     gene            1..732
                     /gene="scFv"
     CDS             <1..>732
                     /gene="scFv"
                     /codon_start=1
                     /product="single-chain Fv fragment"
                     /protein_id="CAA73500.1"
                     /db_xref="GI:2077997"
                     /translation="QVQLVQSGAEVKKPGDSVKVSCKASGYTFSDHYMHWVRQAPGQG
                     LEWMGWIDPNNGDRFAQRFQGRVTMTRDTSISAAYMEVSRLRSDDTAVYYCAREGTG
                     SAIYGMDVWGQGTLVTVSSGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCR
                     ASEGIYHWLAWYQQKPGKAPKFLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDD
                     FATYYCQQYSNYPLTFGGGTKLEIKR"
```

```
608     CTGGGACAGAGATTTCACTTCTCACCATCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATT
```

```
668     ACTGCCAACAATATAGTAATTATCCGGCTCACTTTCGGCGGGCGGGGGACCAAGCTGGAGATCA
                                      699
```

```
728     AACGT
```

```
-- Search Statistics --

Times:              CPU                      Total Elapsed
                    00:00:00.00              00:00:00.00

Number of sequences searched:         5
Number of sequence hits:              5
Number of separate matches:           5
Number of sequence hits saved:        0
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```
HSSCFVQ10  Length: 732  September 10, 2001 07:28  Type: N  Check: 5173  ..
Found using '19_21_23' (spector09in.key)

BASE COUNT     169 a    187 c    221 g    155 t
ORIGIN

428    CTCCTTCCACCTGTCTGCCATCTATTGGAGACAGAGTCACCATCACCTGCGGGCCAGTG
                                                          478

488    AGGGTATTTATCACTGGTTGGCTGGGCCCCATCAAGGTTCAGCGCGCAGTGGAT

548    TGATCTATAAGGCCTCTAGTTAGCCAGTGGGGCCCATCAAAGGTTCAGCGCGCAGTGGAT
```

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> O <
O| |O   Intelligenetics
> O <
```

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Release 5.4

-- Outline of search "19_21_23iss" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector09ln.key":
19_21_23 (NA) ID 19_21_23 NA preliminary pattern
  followed by
1   cgggccagtgaggtgatttatcaactggttggcc
2   any number of any character
2   aaggcctctagtttagcccagt
2   any number of any character
2   caacaatatagtaattatccgctcact

Selected data banks and files:

Data bank : Issued_NA , all entries

          -- Output Parameters --

Format Options: File Options:
Nucleic acid code matching   Exact   Indirect file   No
Find non-matching hits only   No   Sequence or key file   No
Report key used   Yes   List of hits   Yes
Note position of hit   Yes   Hit display   Yes
Display full annotations   Yes   Name and annotations   Yes
Sequence context   50

          -- Run Parameters --

Run mode   Batch
Time to start comparison   now
Notify at end of run   No

------
1 match found in sequence:
US-08-652-816A-29 ; Sequence 29, Application US/0865281 6A
(from "srch/ina/5B_COMB.seq")
Sequence 29, Application US/0865281 6A
Patent No. 5872215
GENERAL INFORMATION:
APPLICANT: Osbourn, JK
APPLICANT: Allen, DJ
APPLICANT: McCafferty, JG
TITLE OF INVENTION: Specific binding members, materials and
TITLE OF INVENTION: methods.
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/652,816A
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.4
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.8
```

```
FILING DATE:     02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE:     24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
FILING DATE:     23-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9525004.9
FILING DATE:     07-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9610824.6
FILING DATE:     23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/02240
FILING DATE:     02-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/244,597
FILING DATE:     01-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME:  David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/33308
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 324 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
Found using '19_21_23' (spector09ln.key)
...
20    CTCCTTCCACCCTGTCTTGCATCTTATTGGAGACAGAGTCACCACCTTGCCGGCCAGTG
                                                            |---------
                                                            70

      --------------------------------------------------------
80    AGGGTATTATCACTGGTTGGCCTGGTATCAGCGAGAAGGCCAGGGAAAGCCCCTAAACTCC

      --------------------------------------------------------
140   TGATCTATAAGGCCTCTAGTTTAGCCCAGTGGGGCCCCATCAAGGTTCAGCGGCAGTGGAT

      --------------------------------------------------------
200   CTGGGACAGAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTGCAACTTATT

      --------------------------------------------------------|
260   ACTGCCAACAATATAGTAATTATCCGCTCACTTTCGGCGGAGGGACCAAGCTGGAGATCA
                                                            291
320   AACGT

          -- Search Statistics --

Times:                         CPU               Total Elapsed
                          00:06:02.04            00:14:17.00

Number of sequences searched:        325093
Number of sequence hits:             1
Number of separate matches:          1
Number of sequence hits saved:       0
```

> O <
OI IO <
> O <

Intelligenetics

Quest - Quick User-directed Expression Search Tool
Release 5.4

-- Outline of search "19_21_23" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector09ln.key":
19_21_23 (NA) ID 19_21_23 NA preliminary pattern
   followed by
1   cgggccagtgaggtgattatcactggttggcc
2   any number of any character
2   aaggcctctagtttagccagt
2   any number of any character
2   caacaaatatagttattatccgctcact

Selected files:

   File : 19_21_23ngs.seq

Format Options:
Nucleic acid code matching   Exact
Find non-matching hits only   No
Report key used   Yes
Note position of hit   Yes
Display full annotations   Yes
Sequence context   50

   -- Output Parameters --

File Options:
Indirect file   No
Sequence or key file   No
List of hits   Yes
Hit display   Yes
Name and annotations   Yes

   -- Run Parameters --

Run mode   Batch
Time to start comparison   now
Notify at end of run   No

------
1 match found in sequence:
aat72135 ; CEA-specific antibody CEA6 and CEA7 VL gene.
(from "19_21_23ngs.seq")
TOIG of: aat72135 check: 449   from: 1   to: 324

ID   AAT72135 standard; DNA; 324 BP.
AC   AAT72135;
XX
DT   07-DEC-1997 (first entry)
DE   CEA-specific antibody CEA6 and CEA7 VL gene.
XX
KW   Carcinoembryonic antigen; CEA; human; antibody; scFv;
KW   tumour marker; lung cancer; breast cancer; colon cancer;
KW   adenocarcinoma; diagnosis; ss.
XX
OS   Homo sapiens.
XX
PN   WO9720932-A1.
XX
PD   12-JUN-1997.
XX
PF   09-DEC-1996; 96WO-GB03043.
XX
PR   11-OCT-1996; 96GB-0021295.
PR   07-DEC-1995; 95GB-0025004.
PR   23-MAY-1996; 96GB-0010824.
XX
PA   (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.

PI   Allen DJ, McCafferty JG, Osbourn JK;
XX
DR   WPI; 1997-319779/29.
DR   P-PSDB; AAW19885.
XX
PT   Specific binding members for human carcinoembryonic antigen - bind
PT   to the A3-B3 extracellular domain of hCEA and are substantially
PT   non-cross-reactive with human liver cells; used for diagnosing
PT   cancer
XX
PS   Example 1; Fig 1b; 128pp; English.
XX
CC   This nucleotide sequence codes for the light chain variable region
CC   (VL) (AAW19885) of human carcinoembryonic antigen (hCEA)-specific
CC   antibodies CEA6 and CEA7.   VH (AAT72126-32) and VL (AAT72133-35) gene
CC   sequences were determined for anti-hCEA antibodies CEA1-CEA7
CC   (see AAW19876-85) that had been obtained by selection from a
CC   universal phage display library.   A claimed specific antibody binding
CC   member (A) comprises an hCEA specific antibody antigen binding
CC   domain that has a dissociation constant for hCEA of less than 1 x
CC 10^{-8} M, is non-cross-reactive with human liver cells, and
CC   preferentially binds to the A3-B3 extracellular domain of hCEA
CC   and/or to cell-associated hCEA over hCEA over soluble hCEA
CC   Preferred (A) include pairings of VH and VL sequences from CEA1-7,
CC   or their CDR sequences, as well as CEA6 VH and VL variants. (A) is
CC   used to detect cells expressing hCEA, in vivo or in vitro,
CC   especially tumour cells for diagnosing cancer, e.g. adenocarcinoma
CC   of the colon, lung or breast.
XX
SQ   Sequence 324 BP; 80 A; 90 C; 77 G; 77 T; 0 other;

AAT72135   Length: 324   September 10, 2001 07:31   Type: N   Check: 449 ..
Found using '19_21_23' (spector09ln.key)

...

20   CTCCTTCCACCCTGTCTGCATCTATTGGAGACGAGTCACCACCTGCCGGGCCAGTG
                                                                       70

80   AGGGTATTTATCACTGGTTGGCCTGGTATCAGCAGAAGCCAGGGAAAGCCCCTAAAACTCC

140 TGATCTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAGGTTCAGCGGCAGTGGAT

200 CTGGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTTGCAACTTATT

260 ACTGCCAACAAATATAGTAATTATATCCGCTCACTTTCGCGGGAGGGACCAAGCTGGAGATCA
          --------------------------|
                                                               291

320 AACGT

------
1 match found in sequence:
aax05452 ; CEA6 antibody single-chain Fv (scFv) fragment encoding DNA.
(from "19_21_23ngs.seq")
TOIG of: aax05452 check: 9527   from: 1   to: 786

ID   AAX05452 standard; DNA; 786 BP.
AC   AAX05452;
XX
DT   26-APR-1999 (first entry)
DE   CEA6 antibody single-chain Fv (scFv) fragment encoding DNA.
XX
KW   Trimeric polypeptide; tetranectin trimerising structural element; TTSE;

KW   fusion protein; ligand binding structure; toxin; enzyme; cytokine; CEA6;
KW   artificial antibody; pharmacokinetic; pharmadynamic; gene therapy;
KW   transfection; imaging; tumour; human; tetranectin; ss.
XX
OS   Unidentified.
XX
PN   WO9856906-A1.
XX
PD   17-DEC-1998.
XX
PF   11-JUN-1998;   98WO-DK00245.
XX
PR   11-JUN-1997;   97DK-0000685.
XX
PA   (ETZE/) ETZERODT M.
PA   (GRAV/) GRAVERSEN N J H.
PA   (HOLT/) HOLTET T L.
PA   (KAST/) KASTRUP J S.
XX
PI   Etzerodt M, Graversen NJH, Holtet TL, Kastrup JS;
PI   Larsen IK, Nielsen BB, Thogersen HC;
XX
DR   WPI; 1999-080897/07.
-
XX
PS   Example 4; Page 63-64; 110pp; English.
XX
PT   The invention relates to the design of trimeric polypeptides using
PT   polypeptide structural elements derived from the tetranectin protein
PT   family. The trimeric polypeptides constructed as a monomer polypeptide
PT   construct comprise at least one tetranectin trimerising structural
PT   element (TTSE) which is covalently linked to at least one heterologous
PT   moiety, the TTSE being capable of forming a stable complex with 2 other
PT   TTSEs, with the proviso that the heterologous moiety is different from
PT   any of the fusion proteins CIIH6FXTN123, H6FXTN123, H6FXTN12, H6FXTN23
PT   (AAW9261 to AAW94264). The TTSE can be used for the construction of
PT   conjugates with heterologous moieties such as a ligand binding
PT   structure, a toxin, a detectable label, an in situ activatable substance,
PT   an enzyme, a radioactive moiety, a cytokine, a non-proteinaceous polymer,
PT   a photo cross-linking agent, or a group facilitating conjugation of the
PT   monomer polypeptide construct to a target. They can be used as vehicles
PT   for assembling antibody fragments into oligomeric or multivalent
PT   entities for generating chimeric artificial antibodies having
PT   preselected pharmacokinetic and/or pharmadynamic properties. The
PT   constructs can be used for targeted gene therapy involving selective
PT   delivery of the material for transfection or infection of the specific
PT   population of cells. They can also be used for delivering a substance to
PT   a cell or tissue or for delivering an imaging or toxin-conjugated
PT   antibody to a tumour. They can also be used for prevention or treating a
PT   disease or for diagnosis. The TTSE provides a stable structure which can
PT   act as a vehicle for a wide variety of conjugates. The present sequence
PT   represents a nucleotide sequence encoding a CEA6 antibody single-chain
PT   (scFv) fragment. This is used in the construction of trimerised and
PT   hexamerised scFv antibodies.
XX
SQ   Sequence 786 BP; 187 A; 211 C; 227 G; 161 T; 0 other;

434   CTCCTTCCACCCTGTCTCCATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG

                                            |-------|
                                               484
494   AGGGTATTTATCACTGGTTGGCCTGGTATCAGACAGAAGCCAGGGAAAGCCCCTAAACTCC

...

XX
PS   Example 4; Page 69pp; English.
XX
PT   This sequence represents the coding sequence of the anti-HER3 scFv
PT   antibody clone H6. The sequence encoding the chain is generated by
PT   a new method for preparing a multispecific Ab comprising a first
PT   polypeptide (PP) and at least 1 extra PP, where: (i) the first PP
PT   comprises a multimerisation domain (MD) forming an interface positioned
PT   to interact with an interface of a MD of the extra PP; and (ii) the first
PT   and extra PPs each have a binding domain, which comprises a heavy chain
PT   and a light chain, where the variable light chain comprises a common
PT   PPs comprise a common sequence. The method comprises: (a) culturing a
PT   host cell comprising nucleic acid encoding the first PP and extra PP, and
PT   the variable light chain, such that the nucleic acid is expressed; and
PT   (b) recovering the multispecific Ab from the culture. The method prepares
PT   heteromultimeric PPs, such as bispecific Abs, bispecific immunoadhesins
PT   and Ab-immunoadhesin chimeras. The method allows for the enhanced
PT   formation of the desired heteromultimer relative to the undesired
PT   heteromultimers and homomultimers. The Abs can be used in immunoassays

---

554   --
      TGACTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAGGTTCAAGCGCCAGTGGAT

614   --
      CTGGGACAGATTTCACTCTCACCATCAGCAGCCCTGCAGCCTGGACCTGATGATTTTGCAACTTATT

674   --
      ACTGCCAACAATATAGTAATTATCCGCTCACTTTCGCGGGAGGGACCAAGCTGGAGACCA
                                                           705

734   AACGTGCCGCGCCAGACCAAAA

1 match found in sequence:
aax17989 ; Anti-HER3 scFv clone H6 coding sequence.
(from "19_21_23ngs.seq")
TOIG of: aax17989 check: 8479   from:1 to:732

AAX17989 ; DNA; 732 BP.

DT   11-MAY-1999 (first entry)

SQ   Sequence 786 BP; 211 C; 227 G; 161 T; 0 other;
Found using '19_21_23' (spector09in.key)

AAX05452   Length: 786   September 10, 2001 07:31 Type: N Check: 9527 ..
Found using '19_21_23' (spector09in.key)

```
CC    and for the in vitro or in vivo diagnosis of various diseases, such as
CC    cancer.
XX
SQ    Sequence 732 BP; 169 A; 180 C; 220 G; 163 T; 0 other;
AAX17989  Length: 732  September 10, 2001 07:31  Type: N  Check: 8479 ..
Found using '19_21_23' (spector091n.key)

 ...

                                                          |----------|
431    CTCCTTCCACCCTGTCTGCATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                                               481

       |---------------------------------------------------------|
491    AGGGTATTTATCACTGGTTGGCCTGGTATCAGCAGAAGCCAGGGAAAGCCCCTAAACTCC

       |------------------------------------------------------------|
551    TGATCTPATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAGGTTCAGCGCGCAGTGGAT

       |-----------------------------------------------------------|
611    CTGGGACAGAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATT

       |----------------------------------------------------------|
671    ACTGCCAACAATATAGTAATTATCCGCTCACTTTCGGGCGGAGGGACCAAGCTGGAGATCA
                        702
```

-- Search Statistics --

Times:
```
           CPU               Total Elapsed
        00:00:00.00          00:00:00.00
```

```
Number of sequences searched:              3
Number of sequence hits:                   3
Number of separate matches:                3
Number of sequence hits saved:             0
```

```
> O <
O| |O        Intelligenetics
> O <

Quest - Quick User-directed Expression Search Tool
Release 5.4

              -- Outline of search "19_21_23pen" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector09ln.key":
  19_21_23 (NA) ID  19_21_23 NA preliminary pattern
1     followed by
2       cgggccagtgaggggtattatcactggttggc
2       any number of any character
2       aaggcctctagtttagccagt
2       any number of any character
2       caacaatatagtaatttatccgctcact

Selected data banks and files:

    Data bank : Pending_NA , all entries

              -- Output Parameters --

Format Options:                            File Options:
  Nucleic acid code matching   Exact         Indirect file         No
  Find non matching hits only  No            Sequence or key file  No
  Report key used              Yes           List of hits          Yes
  Note position of hit         Yes           Hit display           Yes
  Display full annotations     Yes           Name and annotations  Yes
  Sequence context             50

              -- Run Parameters --

Run mode                       Batch
  Time to start comparison     now
  Notify at end of run         No

--------
1 match found in sequence:
US-08-652-816-29 ; Sequence 29, Application US/08652816
 (from "/srch/pna/US086_COMB.seq")
Sequence 29, Application US/08652816
GENERAL INFORMATION:
  APPLICANT: Osbourn, JK
  APPLICANT: Allen, DJ
  APPLICANT: McCafferty, JG
  TITLE OF INVENTION: Specific binding members, materials and
  TITLE OF INVENTION: methods.
  NUMBER OF SEQUENCES: 54
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
    STREET: 6300 Sears Tower, 233 South Wacker Drive
    CITY: Chicago
    STATE: Illinois
    COUNTRY: United States of America
  COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
  CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/08/652,816
    FILING DATE: 23-MAY-1996
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: GB 9125579.4
    FILING DATE: 02-DEC-1991
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: GB 9125579.8
    FILING DATE: 02-DEC-1991
```

```
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9206318.9
  FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9206372.6
  FILING DATE: 23-SEP-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9525004.9
  FILING DATE: 07-DEC-1995
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9610824.6
  FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: PCT/GB92/02240
  FILING DATE: 02-DEC-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 08/244,597
  FILING DATE: 01-JUN-1994
ATTORNEY/AGENT INFORMATION:
  NAME: David W. Clough
  REGISTRATION NUMBER: 36,107
  REFERENCE/DOCKET NUMBER: 28111/33308
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
  LENGTH: 324 base pairs
  TYPE: nucleic acid
  STRANDEDNESS: double
  TOPOLOGY: linear
Found using '19_21_23' (spector09ln.key)

...

20    CTCCTTCCACCCTGTCTGCATCTATTGGAGACAGAGTCACCATCACCTGCCGGGGCCAGTG
                                                                70
                                                         |---------|
80    AGGGTATTTATCACTGGTTGGCCTGGTCAGCAGAAGCCAGGGAAAGCCCCTAAACTCC
      -----------------------------------------------------------

140   TGATCTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCATCAAGGTTCAGCGCGCCAGTGGAT
      -----------------------------------------------------------

200   CTGGGACAGATTTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTTTGCAAACTTATT
      -----------------------------------------------------------

260   ACTGCCAACAATATAGTAATTTATCCGCTCACTTTCGGCGGAGGGACCAAGGCTGGAGATCA
                                                              291
      ----------------------------------------------------|

320   AACGT
```

```
--------
1 match found in sequence:
US-08-652-816-54 ; Sequence 54, Application US/08652816
 (from "/srch/pna/US086_COMB.seq")
Sequence 54, Application US/08652816
GENERAL INFORMATION:
  APPLICANT: Osbourn, JK
  APPLICANT: Allen, DJ
  APPLICANT: McCafferty, JG
  TITLE OF INVENTION: Specific binding members, materials and
  TITLE OF INVENTION: methods.
  NUMBER OF SEQUENCES: 54
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
    STREET: 6300 Sears Tower, 233 South Wacker Drive
    CITY: Chicago
    STATE: Illinois
```

Left column

```
COUNTRY: United States of America
COMPUTER READABLE FORM:
  MEDIUM TYPE: Floppy disk
  COMPUTER: IBM PC compatible
  OPERATING SYSTEM: PC-DOS/MS-DOS
  SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/652,816
  FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9125579.8
  FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9125579.4
  FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9125579.8
  FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9206318.9
  FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9206318.9
  FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9206372.6
  FILING DATE: 23-SEP-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9206372.6
  FILING DATE: 23-SEP-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9525004.9
  FILING DATE: 07-DEC-1995
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: GB 9610824.6
  FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: PCT/GB92/02240
  FILING DATE: 02-DEC-1992
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 08/244,597
  FILING DATE: 01-JUN-1994
ATTORNEY/AGENT INFORMATION:
  NAME: David W. Clough
  REGISTRATION NUMBER: 36,107
  REFERENCE/DOCKET NUMBER: 28111/33308
  TELECOMMUNICATION INFORMATION:
  TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
  LENGTH: 324 base pairs
  TYPE: nucleic acid
  STRANDEDNESS: double
  TOPOLOGY: linear

Found using '19_21_23' (spector09in.key)

  20   CTCCTTCCTCTCTGTCTGCATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                                                   70
       |-----------
  80   AGGGTATTTATCACTGGTTGGCCTGGTATCAGCAGAAGACCAGGAAAGCCCCTAAACTCC
       |------------

 140   TGATCTATATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAGGTTCAGCGGCAGTGGAT
       |-----------

 200   CTGGGACAGAGATTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATT
       |------------

 260   ACTGCCAACAATATATAGTAATTATCCGGCTCACTTTCGGCGGAGGGACCAAGCTGGAGATCA
       |-----------|
                                      291

 320   AACGT
 ------
 1 match found in sequence:
```

Right column

```
US-09-070-416-28 ; Sequence 28, Application US/09070416
(from "/srch/pna/US090_COMB.seq")
Sequence 28, Application US/09070416
GENERAL INFORMATION:
  APPLICANT: ARATHOON, R.
  APPLICANT: CARTER, P.J.
  APPLICANT: MERCHANT, A.M.
  APPLICANT: PRESTA, L.G.
  TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
     HAVING HETEROMULTIMERIC AND COMMON COMPONENTS
  NUMBER OF SEQUENCES: 28
  CORRESPONDENCE ADDRESS:
  ADDRESSEE: Genentech, Inc.
  STREET: 1 DNA Way
  CITY: South San Francisco
  STATE: California
  COUNTRY: USA
  ZIP: 94080
COMPUTER READABLE FORM:
  MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
  COMPUTER: IBM PC compatible
  OPERATING SYSTEM: PC-DOS/MS-DOS
  SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/070,416
  FILING DATE: 30-Apr-1998
  CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
  NAME: Conley, Deirdre L.
  REGISTRATION NUMBER: 36,487
  REFERENCE/DOCKET NUMBER: P1099R2
  TELECOMMUNICATION INFORMATION:
  TELEPHONE: 650/225-2066
  TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
  LENGTH: 732 base pairs
  TYPE: Nucleic Acid
  STRANDEDNESS: Single
  TOPOLOGY: Linear

Found using '19_21_23' (spector09in.key)

 431   CTCCTTCCACCCTGTCTGCATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                                                   481
        |---------

 491   AGGGTATTTATCACTGGTTGGCCTGGTATCAGCAGAAGACCAGGAAAGCCCCTAAACTCC
        |---------

 551   TGATCTATATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAGGTTCAGCGGCAGTGGAT
        |---------

 611   CTGGGACAGAGATTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATT
        |---------

 671   ACTGCCAACAATATATAGTAATTATCCGGCTCACTTTCGGCGGAGGGACCAAGCTGGAGATCA
        |---------|
                                      702

 731   AA
 ------
 1 match found in sequence:
US-09-092-520-29 ; Sequence 29, Application US/09092520
(from "/srch/pna/US090_COMB.seq")
Sequence 29, Application US/09092520
GENERAL INFORMATION:
  APPLICANT: Osbourn, Jane K
```

APPLICANT: Allen, Deborah J
APPLICANT: McCaferty, John
TITLE OF INVENTION: Specific binding members for human
TITLE OF INVENTION: carcinoembryonic antigen, materials and methods
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/092,520
FILING DATE: 05-JUN-1998
CLASSIFICATION: 432
PRIOR APPLICATION DATA:
CLASSIFICATION: 1/02, G01N 33/58, 33/68
APPLICATION NUMBER: PCT/GB96/03043
FILING DATE: 09-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9621295.6
FILING DATE: 11-OCT-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9610824.6
FILING DATE: 23-MAY-1996
APPLICATION NUMBER: US 08/652,816
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9525004.9
FILING DATE: 07-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: David W Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/34697
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 324 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
Found using '19_21_23' (spector09in.key)

```
20    CTCCTTCCACCCTGTCTGCATCTATTGGAGACAGAGTCACCATCACCTGCCGGGCCAGTG
                                          |-------------------|
                                                   70
```

```
80    AGGGTATTATCACTGGTTGGCCTGGTATCAGCAGAAGCCAGGGAAAGCCCCTAAACTCC
```

```
140   TGATCTATAAGGCCTCTAGTTTAGCCAGTGGGGCCCCATCAAGGTTCACCGGCAGTGGAT
```

```
200   CTGGGACAGAGATTCACTCTCACCATCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATT
```

```
260   ACTGCCAACAAATATAGTAATTATTATCCGCTCACTTTCGGCGGGAGGGACCAAGCTGGAGATCA
                                                                      291
```

```
320   AACGT
```

----
1 match found in sequence:
US-09-445-576-20 ; Sequence 20, Application US/09445576
(from "/srch/pna/US094_COMB.seq")
Sequence 20, Application US/09445576
GENERAL INFORMATION:
APPLICANT: Thogersen, Hans Christian
APPLICANT: Etzerodt, Michael
APPLICANT: Holtet, Thor Las
APPLICANT: Graversen, Niels Jonas Heilskov
APPLICANT: Kastrup, Jette Sandholm
APPLICANT: Nielsen, Bettina Bryde
APPLICANT: Larsen, Ingrid Kjoller
TITLE OF INVENTION: Trimerising module
FILE REFERENCE: THOGERSEN -1
CURRENT APPLICATION NUMBER: US/09,445,576
CURRENT FILING DATE: 2000-07-17
PRIOR APPLICATION NUMBER: PCT/DK98/00245
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: DK 0685/97
PRIOR FILING DATE: 1997-06-11
NUMBER OF SEQ ID NOS: 60
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 20
LENGTH: 786
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:CEA6 antibody
Found using '19_21_23' (spector09in.key)

```
434   ctccttccaccctgtctgcatctattgggagacagagtcaccatcacctgccgggccagtg
                                                 |------------|
                                                       484
```

```
494   agggtattatcactggttggcctggtatcagcagaagccagggaaagcccctaaactcc
```

```
554   tgatctataaggcctctagtttagccagtgggggcccatcaaggttcacggcagtggat
```

```
614   ctgggacagagattcactctcaccatcagcagcctgcagcctgatgattttgcaacttatt
```

```
674   actgccaacaaatatagtaattatccgctcactttcggcggggagggaccaagctggagatca
                                                                    705
```

```
734   aacgtgccgccgcagaacaaa
```

-- Search Statistics --

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Times:                          CPU              Total Elapsed
                             12:33:55.14          02:40:22.00
Number of sequences searched:                      15472368
Number of sequence hits:                                  5
Number of separate matches:                               5
Number of sequence hits saved:                            0
```

```
> O <
OI IO   Intelligenetics
> O <

Quest - Quick User-directed Expression Search Tool
Release 5.4

                -- Outline of search "20_22_24" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector091p.key";
20_22_24 (AA) ID 20_22_24 AA preliminary pattern
     followed by
1    rasegiyhwla
2    kasslas
2    any number of any character
2    any number of any character
2    qqysnyplt

Selected files:

                File : 20_22_24ags.pep

Format Options:                      -- Output Parameters --

                                     File Options:
Nucleic acid code matching   Exact   Indirect file            No
Find non-matching hits only  No      Sequence or key file     No
Report key used              Yes     List of hits             Yes
Note position of hit         Yes     Hit display              Yes
Display full annotations     Yes     Name and annotations     Yes
Sequence context             50

                                     -- Run Parameters --

Run mode                     Batch
Time to start comparison     now
Notify at end of run         No
```

```
------
1 match found in sequence:
aaw19885 ; CEA-specific antibody CEA6, CEA7 VL sequence.
(from "20_22_24ags.pep")
TOIG of: aaw19885  check: 8329  from: 1 to: 142
```

```
ID   AAW19885 standard; Protein; 108 AA.
XX
AC   AAW19885;
XX
DT   07-DEC-1997 (first entry)
XX
DE   CEA-specific antibody CEA6, CEA7 VL sequence.
XX
KW   Carcinoembryonic antigen; CEA; human; antibody; scFv;
KW   tumour marker; lung cancer; breast cancer; colon cancer;
KW   adenocarcinoma; diagnosis.
XX
OS   Homo sapiens.
XX
FH   Key          Location/Qualifiers
FH
FT   Region       23..33
FT                /label= CDR1
FT                /note= "complementarity determining region 1"
FT   Region       48..54
FT                /label= CDR2
FT                /note= "complementarity determining region 2"
FT   Region       89..97
FT                /label= CDR3
FT                /note= "complementarity determining region 3"
XX
PN   WO9720932-A1.
XX
PD   12-JUN-1997.
XX
PF   09-DEC-1996;   96WO-GB03043.
XX
PR   11-OCT-1996;   96GB-0021295.
PR   07-DEC-1995;   95GB-0025004.
PR   23-MAY-1996;   96GB-0010824.
XX
PA   (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
PI   Allen DJ, McCafferty JG, Osbourn JK;
XX
DR   WPI; 1997-319779/29.
DR   N-PSDB; AAT72135.
XX
PT   Specific binding members for human carcinoembryonic antigen - bind
PT   to the A3-B3 extracellular domain of hCEA and are substantially
PT   non-cross-reactive with human liver cells; used for diagnosing
PT   cancer
XX
PS   Claim 14; Fig 1b; 128pp; English.
XX
CC   This polypeptide sequence comprises the light chain variable
CC   region (VL) of human carcinoembryonic antigen (hCEA)-specific
CC   antibodies CEA4 and CEA5.  VH (AAT72126-32) and VL (AAT72133-35)
CC   gene sequences were obtained for anti-hCEA antibodies CEAI-CEA7
CC   (see AAW19876-85).  A claimed specific binding member (A) comprises
CC   an hCEA specific antibody antigen binding domain that has a
CC   dissociation constant for hCEA of less than 1 x 10 -8 M, is non-
CC   cross-reactive with human liver cells, and preferentially binds to
CC   the A3-B3 extracellular domain of hCEA and/or to cell-associated
CC   hCEA over hCEA over soluble hCEA.  Preferred (A) include pairings
CC   of VH and VL sequences from CEAI-7, or their CDR sequences, as well
CC   as CEA6 VH and VL variants, including combinations of CEA6 VL with
CC   VH regions from CEA6, TO6D10, HBB6 and HBB11.  (A) is used to
CC   detect cells expressing hCEA, in vivo or in vitro, especially
CC   tumour cells for diagnosing cancer, e.g. adenocarcinoma of the
CC   colon, lung or breast.
XX
SQ   Sequence   108 AA;
```

```
AAW19885  Length: 142  September 10, 2001 07:32  Type: P  Check: 8329 ..
Found using '20_22_24' (spector091p.key)
...
8      CQEZGHSQILKMFPSTWYVSQQTHERSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                    58
       -------------------------------------------------------------|
68     AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
       -------------------------------------------------------------|
128    ---|
       YPLTFGGGTKLEIKR
       131
```

```
------
1 match found in sequence:
aaw78434 ; Antibody light chain targeted to HER3 clone 18.
(from "20_22_24ags.pep")
TOIG of: aaw78434  check: 6033  from: 1 to: 141

ID   AAW78434 standard; Protein; 107 AA.
XX
AC   AAW78434;
XX
DT   11-MAY-1999 (first entry)
XX
DE   Antibody light chain targeted to HER3 clone 18.
XX
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KW   Variant; antibody; heavy chain; light chain; immunoadhesin; immunoassay;
KW   diagnosis; cancer; primer; PCR; amplification; dicistronic.
XX
OS   Synthetic.
XX
PN   WO9850431-A2.
XX
PD   12-NOV-1998.
XX
PF   30-APR-1998;   98WO-US08762.
XX
PR   24-JUN-1997;   97US-0050661.
PR   02-MAY-1997;   97US-0850058.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Arathoon R, Carter PJ, Merchant AM, Presta LG;
XX
DR   WPI; 1999-070091/06.
XX
PT   Selective preparation of multispecific antibodies - with
PT   heteromultimeric heavy chain and common light chain components,
PT   useful for, e.g. in vivo diagnosis of cancer
XX
PS   Example 4; Fig 5; 69pp; English.
XX
CC   This sequence represents the light chain variable region for an antibody
CC   that binds to the HER3 clone 18 protein. The sequence encoding the chain
CC   is generated by a new method for preparing a multispecific Ab comprising
CC   a first polypeptide (PP) and at least 1 extra PP, where: (1) the first PP
CC   comprises a multimerisation domain (MD) forming an interface positioned
CC   to interact with an interface of the extra PP; and (ii) the first
CC   and extra PPs each have a binding domain, which comprises a heavy chain
CC   and a light chain, where the variable light chains of the first and extra
CC   PPs comprise a common sequence. The method comprises: (a) culturing a
CC   host cell comprising nucleic acid encoding the first PP and extra PP, and
CC   the variable light chain, such that the nucleic acid is expressed; and
CC   (b) recovering the multispecific Ab from the culture. The method prepares
CC   heteromultimeric PPs, such as bispecific Abs, bispecific immunoadhesins
CC   and Ab-immunoadhesin chimeras. The method allows for the enhanced
CC   formation of the desired heteromultimer relative to the undesired
CC   heteromultimers and homomultimers. The Abs can be used in immunoassays
CC   and for the in vitro or in vivo diagnosis of various diseases, such as
CC   cancer.
XX
SQ   Sequence   107 AA;

AAW78434   Length: 141   September 10, 2001 07:32   Type: P   Check: 6033 ..
Found using '20_22_24' (spector09lp.key)

...

8
CQEZGHSQILKMFPSTWYVSQOTHERSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
58

68
AWYQQKPGKAPKLLIYKASSLASLGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
128

|---|
YPLTFGGGTKLEIK
131

1 match found in sequence:
aaw94267 ; H6FXscFv(CEA6)tripB fusion protein sequence.
(from "20_22_24ags.pep")
TOIC of: aaw94267 check: 9129 from: 1 to: 364

ID   AAW94267 standard; protein; 330 AA.
XX
AC   AAW94267;

XX
DT   26-APR-1999 (first entry)
XX
DE   H6FXscFv(CEA6)tripB fusion protein sequence.
XX
KW   Trimeric polypeptide; tetranectin trimerising structural element; TTSE;
KW   fusion protein; ligand binding structure; toxin; enzyme; cytokine;
KW   artificial antibody; pharmacokinetic; pharmadynamic; gene therapy;
KW   transfection; imaging; tumour; human; tetranectin; CEA6.
XX
OS   Synthetic.
OS   Homo sapiens.
XX
PN   WO9856906-A1.
XX
PD   17-DEC-1998.
XX
PF   11-JUN-1998;   98WO-DK00245.
XX
PR   11-JUN-1997;   97DK-0000685.
XX
DR   WPI; 1999-080897/07.
XX
PI   Etzerodt M, Graversen NJH, Holtet TL, Kastrup JS;
PI   Larsen IK, Nielsen BB, Thogersen HC;
XX
PA   (ETZE/) ETZERODT M.
PA   (GRAV/) GRAVERSEN N J H.
PA   (HOLT/) HOLTET T L.
PA   (KAST/) KASTRUP J S.
XX
PT   New monomer polypeptide constructs for diagnosis and therapy -
PT   comprise a tetranectin trimerising structural element covalently
PT   linked to at least one heterologous moiety for providing functional
PT   activity
XX
PS   Example 4; Fig 16; 110pp; English.
XX
CC   The invention relates to the design of trimeric polypeptides using
CC   polypeptide structural elements derived from the tetranectin protein
CC   family. The trimeric polypeptides constructed as a monomer polypeptide
CC   construct comprise at least one tetranectin trimerising structural
CC   element (TTSE) which is covalently linked to at least one heterologous
CC   moiety, the TTSE being capable of forming a stable complex with 2 other
CC   TTSEs, with the proviso that the heterologous moiety is different from
CC   any of the fusion proteins CIIH6FXTN123, H6FXTN123, H6FXTN112, H6FXTN23
CC   (AAW94261 to AAW94264). The TTSE can be used for the construction of
CC   conjugates with heterologous moieties such as a ligand binding
CC   structure, a toxin, a detectable label, an in situ activatable substance,
CC   an enzyme, a radioactive moiety, a cytokine, a non-proteinaceous polymer,
CC   a photo cross-linking agent, or a group facilitating conjugation of the
CC   monomer polypeptide construct to a target. They can be used as vehicles
CC   for assembling antibody fragments into oligomeric or multivalent
CC   entities for generating chimeric artificial antibodies having
CC   preselected pharmacokinetic and/or pharmadynamic properties. The
CC   constructs can be used for targeted gene therapy involving selective
CC   delivery of the material for transfection or infection of the specific
CC   population of cells. They can also be used for delivering a substance to
CC   a cell or tissue or for delivering an imaging or toxin-conjugated
CC   antibody to a tumour. They can also be used for prevention or treating a
CC   disease or for diagnosis. They provides a stable structure which can
CC   act as a vehicle for a wide variety of conjugates. The present sequence
CC   represents a H6FXscFv(CEA6)tripB fusion protein sequence encoded by the
CC   plasmid pH6FXscFv(CEA6)tripB
XX
SQ   Sequence   330 AA;
XX
AAW94267   Length: 364   September 10, 2001 07:32   Type: P   Check: 9129 ..
Found using '20_22_24' (spector09lp.key)
...

```
162
     VWGQGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                  212
     AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
222

282   --|
      YPLTFGGGTKLEIKRAAAEEKLISEEDLNGAGTEPPTQKPKKIVNAKKDVVNTK
285                                                        285
...
```

----
1 match found in sequence:
aaw94268 ; H6FXtripBscFv(CEA6) fusion protein sequence.
(from "20_22_24ags.pep")
TOIG of: aaw94268 check: 8042 from: 1 to: 365

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ID   AAW94268 standard; protein; 331 AA.
XX
AC   AAW94268;
XX
DT   26-APR-1999  (first entry)
XX
DE   H6FXtripBscFv(CEA6) fusion protein sequence.
XX
KW   Trimeric polypeptide; tetranectin trimerising structural element; TTSE;
KW   fusion protein; ligand binding structure; toxin; enzyme; cytokine;
KW   artificial antibody; pharmacokinetic; pharmadynamic; gene therapy;
KW   transfection; imaging; tumour; human; tetranectin; CEA6.
XX
OS   Synthetic.
OS   Homo sapiens.
XX
PR   11-JUN-1997;    97DK-0000685.
XX
PN   WO9856906-A1.
XX
PD   17-DEC-1998.
XX
PF   11-JUN-1998;    98WO-DK00245.
XX
PA   (ETZE/) ETZERODT M.
PA   (GRAV/) GRAVERSEN N J H.
PA   (HOLT/) HOLTET T L.
PA   (KAST/) KASTRUP J S.
.
PI   Etzerodt M, Graversen NJH, Holtet TL, Kastrup JS;
PI   Larsen IK, Nielsen BB, Thogersen HC;
XX
DR   WPI; 1999-080897/07.
XX
PS   Example 4; Fig 18; 110pp; English.
XX
PT   New monomer polypeptide constructs for diagnosis and therapy -
PT   comprise a tetranectin trimerising structural element covalently
PT   linked to at least one heterologous moiety for providing functional
PT   activity
XX
CC   The invention relates to the design of trimeric polypeptides using
CC   polypeptide structural elements derived from the tetranectin protein
CC   family. The trimeric polypeptides constructed as a monomer polypeptide
CC   construct comprise at least one tetranectin trimerising structural
CC   element (TTSE) which is covalently linked to at least one heterologous
CC   moiety, the TTSE being capable of forming a stable complex with 2 other
CC   TTSEs, with the proviso that the heterologous moiety is different from
CC   any of the fusion proteins CIIH6FXTN123, H6FXTN123, H6FXTN12, H6FXTN23
CC   (AAW94261 to AAW94264). The TTSE can be used for the construction of
CC   conjugates with heterologous moieties such as a ligand binding
CC   structure, a toxin, a detectable label, an in situ activatable substance,
CC   an enzyme, a radioactive moiety, a cytokine, a non-proteinaceous polymer,
CC   a photo cross-linking agent, or a group facilitating conjugation of the
```

```
CC   monomer polypeptide construct to a target. They can be used as vehicles
CC   for assembling antibody fragments into oligomeric or multivalent
CC   entities for generating chimeric artificial antibodies having
CC   preselected pharmacokinetic and/or pharmadynamic properties. The
CC   constructs can be used for targeted gene therapy involving selective
CC   delivery of the material for transfection or infection of the specific
CC   population of cells. They can also be used for delivering a substance to
CC   a cell or tissue or for delivering an imaging or toxin-conjugated
CC   antibody to a tumour. They can also be used for prevention or treating a
CC   disease or for diagnosis. The TTSE provides a stable structure which can
CC   act as a vehicle for a wide variety of conjugates. The present sequence
CC   represents a H6FXtripBscFv(CEA6) fusion protein sequence encoded by the
CC   plasmid pH6FXtripBscFv(CEA6)
XX
SQ   Sequence   331 AA;
```

AAW94268 Length: 365   September 10, 2001 07:32 Type: P Check: 8042 ..
Found using '20_22_24' (spector091p.key)
...

```
215
     VWGQGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                  265

275  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

     -------|
     YPLTFGGGTKLEIKRAAAEEQKLISEEDLNGA
335                                  338
```

----
3 matches found in sequence:
aaw94269 ; H6FXscFv(CEA6)tripBscFv(CEA6) fusion protein sequence.
(from "20_22_24ags.pep")
TOIG of: aaw94269 check: 8633 from: 1 to: 626

```
ID   AAW94269 standard; protein; 592 AA.
XX
AC   AAW94269;
XX
DT   26-APR-1999  (first entry)
XX
DE   H6FXscFv(CEA6)tripBscFv(CEA6) fusion protein sequence.
XX
KW   Trimeric polypeptide; tetranectin trimerising structural element; TTSE;
KW   fusion protein; ligand binding structure; toxin; enzyme; cytokine;
KW   artificial antibody; pharmacokinetic; pharmadynamic; gene therapy;
KW   transfection; imaging; tumour; human; tetranectin; CEA6.
XX
OS   Synthetic.
OS   Homo sapiens.
XX
PN   WO9856906-A1.
XX
PD   17-DEC-1998.
XX
PF   11-JUN-1998;    98WO-DK00245.
XX
PR   11-JUN-1997;    97DK-0000685.
XX
PA   (ETZE/) ETZERODT M.
PA   (GRAV/) GRAVERSEN N J H.
PA   (HOLT/) HOLTET T L.
PA   (KAST/) KASTRUP J S.
PI   Etzerodt M, Graversen NJH, Holtet TL, Kastrup JS;
PI   Larsen IK, Nielsen BB, Thogersen HC;
XX
DR   WPI; 1999-080897/07.
XX
```

PT   New monomer polypeptide constructs for diagnosis and therapy -
PT   comprise a tetranectin trimerising structural element covalently
PT   linked to at least one heterologous moiety for providing functional
PT   activity
XX
PS
XX
XX   Example 4; Fig 20; 110pp; English.
XX

162 The invention relates to the design of trimeric polypeptides using
CC   polypeptide structural elements derived from the tetranectin protein
CC   family. The trimeric polypeptides constructed as a monomer polypeptide
CC   construct comprise at least one tetranectin trimerising structural
CC   element (TTSE) which is covalently linked to at least one heterologous
CC   moiety, the TTSE being capable of forming a stable complex with 2 other
CC   TTSEs, with the proviso that the heterologous moiety is different from
CC   any of the fusion proteins C1IH6FXTN123, H6FXTN123, H6FXTN12, H6FXTN23
CC   (AAW94261 to AAW94264). The TTSE can be used for the construction of
CC   conjugates with heterologous moieties such as a ligand binding
CC   structure, a toxin, a detectable label, an in situ activatable substance,
CC   an enzyme, a radioactive moiety, a cytokine, a non-proteinaceous polymer,
CC   a photo cross-linking agent, or a group facilitating conjugation of the
CC   monomer polypeptide construct to a target. They can be used as vehicles
CC   for assembling antibody fragments into oligomeric or multivalent
CC   entities for generating chimeric artificial antibodies having
CC   preselected pharmacokinetic and/or pharmadynamic properties. The
CC   constructs can be used for targeted gene therapy involving selective
CC   delivery of the material for transfection or infection of the specific
CC   population of cells. They can also be used for delivering a substance to
CC   a cell or tissue or for delivering an imaging or toxin-conjugated
CC   antibody to a tumour. They can also be used for prevention or treating a
CC   disease or for diagnosis. The TTSE provides a stable structure which can
CC   act as a vehicle for a wide variety of conjugates. The present sequence
CC   represents a H6FXscFv(CEA6)tripBscfv(CEA6) fusion protein sequence
CC   encoded by the plasmid pH6FXscFv(CEA6)tripBscFv(CEA6).
XX
SQ   Sequence 592 AA;

AAW94269 Length: 626   September 10, 2001 07:32 Type: P Check: 8633 ..
Found using '20_22_24' (spector09lp.key)

VWGQGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                           212
                                                           212
                        |-----
                        |-----
                        |-----
                        |-----
222 AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                        |------
                        |------
                        |------
                        |------
282 YPLTFGGGTKLEIKRAAAEQKLISEEDLNGAGTEPPTQKPKKIVNAKKDVVNTMFEELK
                     285
     | |
     | |
342 SRLDTLAQEVALLKEQOALQTGSQVLQLQQSGAEVKKPGSSVKVSCKASGGTFSNSPINWL
     |------
     |------
     |------
402 RQAPGQGLEWMGSIIPSFGTANYAQKFQGRLTITADESTSTAYMELSSLRSEDTAVYYCA
     |------
     |------
     |------

462 GRSHNYELYYYYMDVWGQGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRV
     |------
     |------
     |------

522 TITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQ
                        526
     |------
     |------
     |------

582 PDDFATYYCQQYSNYPLTFGGGTKLEIKRAAAEQKLISEEDLNGA
                      599
                      599
     |------
     |------|

----
1 match found in sequence:
aay06714 ; Antibody 5E5 single chain Fv (scFv) fragment.
(from "20_22_24ags.pep")
TOIG of: aay06714 check: 1114 from: 1 to: 279

ID   AAY06714 standard; Protein; 245 AA.
XX
AC   AAY06714;
XX
DT   17-JUN-1999 (first entry)
XX
DE   Antibody 5E5 single chain Fv (scFv) fragment.
XX
KW   Agonist antibody; thrombopoietin receptor; TPO-R; thrombopoietin; DIC;
KW   megakaryocyte; platelet; immunological; hematopoietic; thrombocytopenia;
KW   bone marrow hypoplasia; disseminated intravascular coagulation; anemia;
KW   myelodysplasia; myelotoxic chemotherapy; leukaemia; tumour; MuSK; CDR;
KW   neuromuscular; muscular dystrophy; complementarity determining region.
XX
OS   Homo sapiens.
XX
PN   WO9910494-A2.
XX
PD   04-MAR-1999.
XX
PF   21-AUG-1998; 98WO-US17364.
XX
PR   25-AUG-1997; 97US-0918148.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Adams CW, Carter PJ, Fendly BM, Gurney AL;
XX
DR   WPI; 1999-204666/17.
XX
PT   New thrombopoietin receptor agonist antibodies - useful for
PT   treating immunological or hematological disorders
XX
PS   Disclosure; Fig 1; 86pp; English.
XX
CC   The invention relates to an agonist antibody (Ab) which binds to a
CC   thrombopoietin receptor (TPO-R). The antibodies which bind the TPO-R can
CC   be used in the same way and for the same indications as thrombopoietin
CC   (TPO). They can stimulate proliferation, differentiation or growth of
CC   megakaryocytes. They may also be able to stimulate megakaryocytes to
CC   increase platelet production. They can be used for treating
CC   immunological or hematopoietic disorders, especially thrombocytopenia.
CC   Thrombocytopenia -associated bone marrow hypoplasia (e.g. aplastic anemia
CC   following chemotherapy or bone marrow transplant) may be effectively
CC   treated with the antibody compounds as well as disorders such as
CC   disseminated intravascular coagulation (DIC), immune thrombocytopenia
CC   (HIV-induced and non HIV-induced), chronic idiopathic thrombocytopenia,
CC   congenital thrombocytopenia, thrombotic thrombocytopenia and
CC   myelodysplasia. They can also be used in e.g. myelotoxic chemotherapy for
CC   treatment of solid tumours or leukaemia, myeloablative chemotherapy for
CC   autologous or allogeneic bone marrow transplant, myelodysplasia,

CC   idiopathic aplastic anemia, congenital thrombocytopenia, and immune
CC   thrombocytopenia. The antibodies which bind to the MuSK receptor can be
CC   used for improving neuromuscular function in a patient, e.g. in muscular
CC   dystrophy. The products can also be used for detection and diagnosis. The
CC   antibodies have a longer half-life than the natural ligand for the TPO-R.
CC   Sequences AAY06713-Y06718 represent single chain Fv (scFv) fragments of
CC   various antibodies.
XX
SQ   Sequence   245 AA;

AAY06714 Length: 279   September 10, 2001 07:32 Type: P Check: 1114 ..
Found using '20_22_24' (spector09ip.key)

263   YPLTFGGGTKLEVKRAA
             266

203   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGADFTLTISSLQPDDFATYYCQQYSN
                                                                       |-------|
                                                                         193

143   IWGGGTMVTVSSGGGGSGGGGSGGGGSGDIVMTQSPSTLSASVGDRVAITCRASEGIYHWL

...

ID   AAY06715 standard; Protein; 245 AA.
XX
AC   AAY06715;
XX

1 match found in sequence:
aay06715 ; Antibody 10D10 single chain Fv (scFv) fragment.
(from "20_22_24ags.pep")
TOIG of: aay06715   Check: 884   from: 1   to: 279

DT   17-JUN-1999 (first entry)
XX
DE   Antibody 10D10 single chain Fv (scFv) fragment.
XX
KW   Agonist antibody; thrombopoietin receptor; TPO-R; thrombopoietin; DIC;
KW   megakaryocyte; platelet; immunological; hematopoietic; thrombocytopenia;
KW   bone marrow hypoplasia; disseminated intravascular coagulation; anemia;
KW   myelodysplasia; myelotoxic chemotherapy; leukaemia; tumour; MuSK; CDR;
KW   neuromuscular; muscular dystrophy; complementarity determining region.
XX
OS   Homo sapiens.
XX
PN   WO9910494-A2.
XX
PD   04-MAR-1999.
XX
DR   WPI; 1999-204666/17.
XX
PI   Adams CW, Carter PJ, Fendly BM, Gurney AL;
XX
PA   (GETH) GENENTECH INC.
XX
PS   Disclosure; Fig 1; 86pp; English.
XX
PT   New thrombopoietin receptor agonist antibodies - useful for
PT   treating immunological or hematological disorders
XX
PR   25-AUG-1997; 97US-0918148.
XX
PF   21-AUG-1998; 98WO-US17364.
XX
PN   WO9910494-A2.

The invention relates to an agonist antibody (Ab) which binds to a
thrombopoietin receptor (TPO-R). The antibodies which bind the TPO-R can
be used in the same way and for the same indications as thrombopoietin
(TPO). They can stimulate proliferation, differentiation or growth of
megakaryocytes. They may also be able to stimulate megakaryocytes to

---

CC   increase platelet production. They can be used for treating
CC   immunological or hematopoietic disorders, especially thrombocytopenia.
CC   Thrombocytopenia -associated bone marrow hypoplasia (e.g. aplastic anemia
CC   following chemotherapy or bone marrow transplant) may be effectively
CC   treated with the antibody compounds as well as disorders such as
CC   disseminated intravascular coagulation (DIC), immune thrombocytopenia
CC   (HIV-induced and non HIV-induced), chronic idiopathic thrombocytopenia,
CC   congenital thrombocytopenia, thrombotic thrombocytopenia and
CC   myelodysplasia. They can also be used in e.g. myelotoxic chemotherapy for
CC   treatment of solid tumours or leukaemia, myeloablative chemotherapy for
CC   autologous or allogeneic bone marrow transplant, myelodysplasia,
CC   idiopathic aplastic anemia, congenital thrombocytopenia, and immune
CC   thrombocytopenia. The antibodies which bind to the MuSK receptor can be
CC   used for improving neuromuscular function in a patient, e.g. in muscular
CC   dystrophy. The products can also be used for detection and diagnosis. The
CC   antibodies have a longer half-life than the natural ligand for the TPO-R.
CC   Sequences AAY06713-Y06718 represent single chain Fv (scFv) fragments of
CC   various antibodies.
XX
SQ   Sequence   245 AA;

AAY06715 Length: 279   September 10, 2001 07:32 Type: P Check: 884 ..
Found using '20_22_24' (spector09ip.key)

263   YPLTFGGGTKLEILRAA
             266

203   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

143   VWGRGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                       |-------|
                                                                         193

...

ID   AAY06716 standard; Protein; 244 AA.
XX
AC   AAY06716;
XX

1 match found in sequence:
aay06716 ; Antibody 12B5 single chain Fv (scFv) fragment.
(from "20_22_24ags.pep")
TOIG of: aay06716   Check: 6812   from: 1   to: 278

DT   17-JUN-1999 (first entry)
XX
DE   Antibody 12B5 single chain Fv (scFv) fragment.
XX
KW   Agonist antibody; thrombopoietin receptor; TPO-R; thrombopoietin; DIC;
KW   megakaryocyte; platelet; immunological; hematopoietic; thrombocytopenia;
KW   bone marrow hypoplasia; disseminated intravascular coagulation; anemia;
KW   myelodysplasia; myelotoxic chemotherapy; leukaemia; tumour; MuSK; CDR;
KW   neuromuscular; muscular dystrophy; complementarity determining region.
XX
OS   Homo sapiens.
XX
PN   WO9910494-A2.
XX
PD   04-MAR-1999.
XX
PF   21-AUG-1998; 98WO-US17364.
XX
PR   25-AUG-1997; 97US-0918148.
XX
PA   (GETH) GENENTECH INC.
XX
PI   Adams CW, Carter PJ, Fendly BM, Gurney AL;
XX
DR   WPI; 1999-204666/17.

Left column

```
XX
PT   New thrombopoietin receptor agonist antibodies  - useful for
PT   treating immunological or hematological disorders
XX
PS   Disclosure; Fig 1; 86pp; English.
XX
CC   The invention relates to an agonist antibody (Ab) which binds to a
CC   thrombopoietin receptor (TPO-R). The antibodies which bind the TPO-R can
CC   be used in the same way and for the same indications as thrombopoietin
CC   (TPO). They can stimulate proliferation, differentiation or growth of
CC   megakaryocytes. They may also be able to stimulate megakaryocytes to
CC   increase platelet production. They can be used for treating
CC   immunological or hematopoietic disorders, especially thrombocytopenia.
CC   Thrombocytopenia -associated bone marrow hypoplasia (e.g. aplastic anemia
CC   following chemotherapy or bone marrow transplant) may be effectively
CC   treated with the antibody compounds as well as disorders such as
CC   disseminated intravascular coagulation (DIC), immune thrombocytopenia
CC   (HIV-induced and non HIV-induced), chronic idiopathic thrombocytopenia,
CC   congenital thrombocytopenia, thrombotic thrombocytopenia and
CC   myelodysplasia. They can also be used in e.g. myelotoxic chemotherapy for
CC   treatment of solid tumours or leukaemia, myeloablative chemotherapy for
CC   autologous or allogeneic bone marrow transplant, myelodysplasia,
CC   idiopathic aplastic anemia, congenital thrombocytopenia, and immune
CC   thrombocytopenia. The antibodies which bind to the MuSK receptor can be
CC   used for improving neuromuscular function in a patient, e.g. in muscular
CC   dystrophy. The products can also be used for detection and diagnosis. The
CC   antibodies have a longer half-life than the natural ligand for the TPO-R.
CC   Sequences AAY06713-Y06718 represent single chain Fv (scFV) fragments of
CC   various antibodies.
XX
SQ   Sequence   244 AA;
```

```
AAY06716  Length: 278   September 10, 2001 07:32   Type: P   Check: 6812  ..
Found using '20_22_24' (spector09ip.key)
...

142   IWGQGTMVTVSSGGGGTGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                192
                 |---------|
202   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

262   ---|
      YPLTFGGGTELEIKRAA
                   265
```

```
ID   AAY06717 standard; Protein; 245 AA.
XX
AC   AAY06717;
XX
DT   17-JUN-1999  (first entry)
XX
DE   Antibody 12B5 single chain Fv (scFV) fragment.
XX
KW   Agonist antibody; thrombopoietin; thrombopoietin receptor; TPO-R;
KW   megakaryocyte; platelet; immunological; hematopoietic; thrombocytopenia;
KW   bone marrow hypoplasia; disseminated intravascular coagulation; anemia;
KW   myelodysplasia; myelotoxic chemotherapy; leukaemia; tumour; MuSK; CDR;
KW   neuromuscular; muscular dystrophy; complementarity determining region.
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Misc-difference 208
```

```
1 match found in sequence:
aay06717 ; Antibody 12B5 single chain Fv (scFV) fragment.
  (from "20_22_24ags.pep")
TOIG of: aay06717  check: 1357  from: 1  to: 279
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Right column

```
FT               /note= "unspecified"
XX
PN   WO9910494-A2.
XX
PD   04-MAR-1999.
XX
PF   21-AUG-1998;  98WO-US17364.
XX
PR   25-AUG-1997;  97US-0918148.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Adams CW,  Carter PJ,  Fendly BM,  Gurney AL;
XX
DR   WPI; 1999-204666/17.
XX
PT   New thrombopoietin receptor agonist antibodies  - useful for
PT   treating immunological or hematological disorders
XX
PS   Disclosure; Fig 1; 86pp; English.
XX
CC   The invention relates to an agonist antibody (Ab) which binds to a
CC   thrombopoietin receptor (TPO-R). The antibodies which bind the TPO-R can
CC   be used in the same way and for the same indications as thrombopoietin
CC   (TPO). They can stimulate proliferation, differentiation or growth of
CC   megakaryocytes. They may also be able to stimulate megakaryocytes to
CC   increase platelet production. They can be used for treating
CC   immunological or hematopoietic disorders, especially thrombocytopenia.
CC   Thrombocytopenia -associated bone marrow hypoplasia (e.g. aplastic anemia
CC   following chemotherapy or bone marrow transplant) may be effectively
CC   treated with the antibody compounds as well as disorders such as
CC   disseminated intravascular coagulation (DIC), immune thrombocytopenia
CC   (HIV-induced and non HIV-induced), chronic idiopathic thrombocytopenia,
CC   congenital thrombocytopenia, thrombotic thrombocytopenia and
CC   myelodysplasia. They can also be used in e.g. myelotoxic chemotherapy for
CC   treatment of solid tumours or leukaemia, myeloablative chemotherapy for
CC   autologous or allogeneic bone marrow transplant, myelodysplasia,
CC   idiopathic aplastic anemia, congenital thrombocytopenia, and immune
CC   thrombocytopenia. The antibodies which bind to the MuSK receptor can be
CC   used for improving neuromuscular function in a patient, e.g. in muscular
CC   dystrophy. The products can also be used for detection and diagnosis. The
CC   antibodies have a longer half-life than the natural ligand for the TPO-R.
CC   Sequences AAY06713-Y06718 represent single chain Fv (scFV) fragments of
CC   various antibodies.
XX
SQ   Sequence   245 AA;
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```
AAY06717  Length: 279   September 10, 2001 07:32   Type: P   Check: 1357  ..
Found using '20_22_24' (spector09ip.key)
...

143   VWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                193
                 |---------|
203   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTXYISSLQPDDFATYYCQQYSN

263   ---|
      YPLTFGGGTKLEIKRAA
                   266
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ID   AAY96062 standard; protein; 107 AA.
XX
AC   AAY96062;
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1 match found in sequence:
aay96062 ; Human anti-DAF antibody LU20 light chain variable region.
  (from "20_22_24ags.pep")
TOIG of: aay96062  check: 6033  from: 1  to: 141
```

```
XX
DT    05-DEC-2000  (first entry)
XX
DE    Human anti-DAF antibody LU20 light chain variable region.
XX
KW    LU20; human; antibody; VL domain; decay accelerating factor; DAF;
KW    phage display; subtractive panning; lung cancer; lung carcinoma;
KW    lung adenocarcinoma; therapy; diagnosis.
XX
OS    Homo sapiens.
XX
FH    Key              Location/Qualifiers
FT
FT    Region           24..34
FT                     /label= CDRI
FT                     /note= "complementarity determining region I"
FT    Region           27..33
FT                     /note= "hypervariable loop region"
FT    Region           50..56
FT                     /label= CDRII
FT                     /note= "complementarity determining region II"
FT    Region           50..52
FT                     /note= "hypervariable loop residues"
FT    Region           89..97
FT                     /label= CDRIII
FT                     /note= "complementarity determining region III"
FT    Region           91..98
FT                     /note= "hypervariable loop residues"
XX
PN    WO200052054-A2.
XX
PD    08-SEP-2000.
XX
PF    29-FEB-2000; 2000WO-US05352.
XX
PR    01-MAR-1999;  99US-0122262.
XX
PA    (GETH ) GENENTECH INC.
XX
PI    Carter PJ,  Ridgway JB;
XX
DR    WPI; 2000-594169/56.
XX
PT    Making antibodies (e.g. anti-decay accelerating factor) for
PT    diagnosing or treating e.g. lung cancer comprises identifying an
PT    antigen that is differentially expressed on the surface of two or more
PT    distinct cell populations
XX
PS    Disclosure; Fig 5A; 52pp; English.
XX
CC    The present sequence is that of the light chain variable region
CC    (VL) of the anti-decay accelerating factor (DAF) human antibody
CC    LU20. The VH region is given in AAY06065. LU20 was produced using a
CC    novel method for making antibodies which can be used for cancer
CC    diagnosis or therapy.  The method comprises: (a) binding an
CC    antibody phage from a naive antibody phage library to a live cancer
CC    cell; (b) selecting an antibody phage or antibody which binds
CC    selectively to the live cancer cell; and (c) identifying an antigen
CC    to which the antibody phage or antibody binds.  To obtain LU20, a
CC    human scFv library was used to search for tumour-associated
CC    antigens by panning the lung adenocarcinoma cell line 1264, and
CC    counter-selecting with a non-tumour bronchial epithelial cell line,
CC    BEAS-2B. The invention also describes a method for identifying an
CC    antigen which is differentially expressed on the surface of 2 or
CC    more distinct cell populations. The anti-DAF human antibody, or a
CC    composition comprising the antibody, is useful for in vivo cancer
CC    diagnosis or therapy.  In particular, the antibody is useful for
CC    diagnosing or treating lung cancer, e.g. small-cell lung cancer,
CC    non-small cell lung cancer, large cell lung carcinoma,
CC    lung adenocarcinoma, or squamous cell lung carcinoma (all claimed).
XX
SQ    Sequence  107 AA;

AAY96062   Length: 141   September 10, 2001 07:32  Type: P  Check: 6033  ..
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Found using '20_22_24' (spector091p.key)

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8      CQEZGHSQILKMFPSTWYVSQQTHERSDIQMTQSPSTLSASIGDRVIITCRASEGIYHWL
                                                               58
                                                               |---------

68     -------------------------------------------------------------
       AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

128    ---|
       YPLTFGGGTKLEIK
       131
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                    -- Search Statistics --

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Times:              CPU            Total Elapsed
                    00:00:00.00    00:00:01.00

Number of sequences searched:              10
Number of sequence hits:                   10
Number of separate matches:                12
Number of sequence hits saved:              0
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> 0 <
0|0   IntelliGenetics
> 0 <
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-- Quick User-directed Expression Search Tool
Release 5.4

-- Outline of search "20_22_24iss" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector091p.key":
20_22_24 (AA) ID 20_22_24 AA preliminary pattern
  followed by
1   rasegiyhwla
2   any number of any character
2   kaslas
2   kaslas
2   any number of any character
2   qqysnyplt
    Sequence context

Selected data banks and files:

Data bank : Issued_AA , all entries

-- Output Parameters --

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Format Options:                                File Options:
Nucleic acid code matching     Exact           Indirect file          No
Find non-matching hits only    No              Sequence or key file   No
Report key used                Yes             List of hits           Yes
Note position of hit           Yes             Hit display            Yes
Display full annotations       Yes             Name and annotations   Yes
Sequence context               50
```

-- Run Parameters --

```
Run mode                  Batch
Time to start comparison  now
Notify at end of run      No
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1 match found in sequence:
US-08-652-816A-2 ; Sequence 2, Application US/08652816A
(from "/srch/iaa/5B_COMB.pep")
Sequence 2, Application US/08652816A
Patent No. 5872215
GENERAL INFORMATION:
APPLICANT: Osbourn, JK
APPLICANT: Allen, DJ
APPLICANT: McCafferty, JG
TITLE OF INVENTION: Specific binding members, materials and
TITLE OF INVENTION: methods.
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/652,816A
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.4
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.8
```

```
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
FILING DATE: 23-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9525004.9
FILING DATE: 07-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9610824.6
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/02240
FILING DATE: 02-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/244,597
FILING DATE: 01-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/33308
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 108 amino acids
TYPE: amino acid
TOPOLOGY: linear
Found using '20_22_24' (spector091p.key)
```

```
 1   DIQMTQSPSSLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS
                           |←20→|                   |←22→|
                           |←24→|

61   RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIKR
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1 match found in sequence:
US-08-652-816A-53 ; Sequence 53, Application US/08652816A
(from "/srch/iaa/5B_COMB.pep")
Sequence 53, Application US/08652816A
Patent No. 5872215
GENERAL INFORMATION:
APPLICANT: Osbourn, JK
APPLICANT: Allen, DJ
APPLICANT: McCafferty, JG
TITLE OF INVENTION: Specific binding members, materials and
TITLE OF INVENTION: methods.
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/652,816A
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.4
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.8
FILING DATE: 02-DEC-1991
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5,872,215

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PRIOR APPLICATION DATA:
   APPLICATION NUMBER: GB 9206318.9
   FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
   APPLICATION NUMBER: GB 9206372.6
   FILING DATE: 23-SEP-1992
PRIOR APPLICATION DATA:
   APPLICATION NUMBER: GB 9525004.9
   FILING DATE: 07-DEC-1995
PRIOR APPLICATION DATA:
   APPLICATION NUMBER: GB 9610824.6
   FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
   APPLICATION NUMBER: PCT/GB92/02240
   FILING DATE: 02-DEC-1992
PRIOR APPLICATION DATA:
   APPLICATION NUMBER: US 08/244,597
   FILING DATE: 01-JUN-1994
ATTORNEY/AGENT INFORMATION:
   NAME: David W. Clough
   REGISTRATION NUMBER: 36,107
   REFERENCE/DOCKET NUMBER: 28111/33308
TELECOMMUNICATION INFORMATION:
   TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 53:
   SEQUENCE CHARACTERISTICS:
      LENGTH: 108 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
Found using '20_22_24' (spector091p.key)

1    DIQMTQSPSTLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS
                          24                                         |
                                                                    97

61   RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIKR
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Times:                              CPU          Total Elapsed
                                 00:02:01.17     00:09:14.00

Number of sequences searched:                    197390
Number of sequence hits:                              2
Number of separate matches:                           2
Number of sequence hits saved:                        0
```

```
> o <
o| |o   Intelligenetics
> o <

Quest - Quick User-directed Expression Search Tool
Release 5.4

                    -- Outline of search "20_22_24pen" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector091p.key":
  20_22_24 (AA) ID  20_22_24 AA preliminary pattern
    followed by
1   rasegiyhwla
2   any number of any character
2   kaslas
2   any number of any character
2   qqysnyplt

Selected data banks and files:

Data bank : Pending_AA , all entries

                    -- Output Parameters --

Format Options:              File Options:
  Nucleic acid code matching  Exact     Indirect file          No
  Find non-matching hits only  No       Sequence or key file    No
  Report key used             Yes       List of hits           Yes
  Note position of hit        Yes       Hit display            Yes
  Display full annotations    Yes       Name and annotations   Yes
  Sequence context             50

                    -- Run Parameters --

  Run mode                    Batch
    Time to start comparison  now
    Notify at end of run      No

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1 match found in sequence:
PCT-US01-19110-918 ; Sequence 918, Application PC/TUS0119110
  (from "/srch/paa/PCTUS_COMB.pep")
Sequence 918, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 918
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...
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```
115   VWGQGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                     165

175   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                        |--|
235                                   YPLTFGGGTKLEIKR
                                      238

-------
1 match found in sequence:
PCT-US01-19110-922 ; Sequence 922, Application PC/TUS0119110
  (from "/srch/paa/PCTUS_COMB.pep")
Sequence 922, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 922
LENGTH: 251
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

117   VWGKGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                     167

177   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                        |--|
237                                   YPLTFGGGTKLEIKR
                                      240

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1 match found in sequence:
PCT-US01-19110-926 ; Sequence 926, Application PC/TUS0119110
  (from "/srch/paa/PCTUS_COMB.pep")
Sequence 926, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
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                                                        APPLICANT: Human Genome Sciences, Inc.
PRIOR APPLICATION NUMBER: 60/293,499                    TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
PRIOR FILING DATE: 2001-05-25                           FILE REFERENCE: PF523PCT
NUMBER OF SEQ ID NOS: 3239                              CURRENT APPLICATION NUMBER: PCT/US01/19110
SOFTWARE: PatentIn Ver. 2.0                             CURRENT FILING DATE: 2001-06-15
SEQ ID NO 926                                           PRIOR APPLICATION NUMBER: 60/212,210
  LENGTH: 249                                           PRIOR FILING DATE: 2000-06-15
  TYPE: PRT                                             PRIOR APPLICATION NUMBER: 60/240,816
  ORGANISM: Homo sapiens                                PRIOR FILING DATE: 2000-10-17
Found using '20_22_24' (spector091p.key)               PRIOR APPLICATION NUMBER: 60/276,248
                                                        PRIOR FILING DATE: 2001-03-16
                                                        PRIOR APPLICATION NUMBER: 60/277,379
235                                                     PRIOR FILING DATE: 2001-03-21
    YPLTFGGGTKLEIKR                                     PRIOR APPLICATION NUMBER: 60/293,499
    238                                                 PRIOR FILING DATE: 2001-05-25
                                                        NUMBER OF SEQ ID NOS: 3239
                                                        SOFTWARE: PatentIn Ver. 2.0
175                                                     SEQ ID NO 1008
    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN      LENGTH: 248
    165                                                   TYPE: PRT
                                                          ORGANISM: Homo sapiens
                                                        Found using '20_22_24' (spector091p.key)
115
    VWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
    165                                                 114
...                                                         VWGQGTTVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDKVTITCRASEGIYHWL
                                                            164
------                                                  ...
1 match found in sequence:
PCT-US01-19110-932 ; Sequence 932, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 932, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 932
  LENGTH: 250
  TYPE: PRT
  ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

236
    YPLTFGGGTKLEIKR
    239

176
    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
    166

116
    VWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
    166
...

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1 match found in sequence:
PCT-US01-19110-969 ; Sequence 969, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 969, Application PC/TUS0119110
GENERAL INFORMATION:
```

Right column:

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APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 969
  LENGTH: 247
  TYPE: PRT
  ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

233
    YPLTFGGGTKLEIKR
    236

173
    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
    163

113
    YWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
    163
...

------
1 match found in sequence:
PCT-US01-19110-1008 ; Sequence 1008, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1008, Application PC/TUS0119110
GENERAL INFORMATION:
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174   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

234   ---|
       YPLTFGGGTKLEIKR
       237

1 match found in sequence:
PCT-US01-19110-1177 ; Sequence 1177, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1177, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1177
LENGTH: 247
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

233   ---|
       YPLTFGGGTKLEIKR
       236

173   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

113   VWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                  163
                                                      |---------

. . .

SEQ ID NO 1188
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

235   ---|
       YPLTFGGGTKLEIKR
       238

175   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
       |---

115   GWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                  165

1 match found in sequence:
PCT-US01-19110-1320 ; Sequence 1320, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1320, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1320
LENGTH: 251
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

237   ---|
       YPLTFGGGTKLEIKR
       240

177   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

117   VWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                  167
                                                      |---------

. . .

1 match found in sequence:
PCT-US01-19110-1421 ; Sequence 1421, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1421, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110

CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1421
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
234                                   ---|
               YPLTFGGGTKLEIKR
                                      237
```

```
174                        ---|------
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSDTDFTLTISSLQPDDFATYYCQQYSN
                           164
```

```
114                        ---|------
YWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTMSASIGDRVTITCRASEGIYHWL
                           164
```

...

1 match found in sequence:
PCT-US01-19110-1603 ; Sequence 1603, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1603, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1603
LENGTH: 255
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
181                        ---|
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                           ---|
```

```
121                                   ---|------
VWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                      171
```

...

```
241
               YPLTFGGGTKLEIKR
                                      244
```

1 match found in sequence:
PCT-US01-19110-1700 ; Sequence 1700, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1700, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1700
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
234                                   ---|
               YPLTFGGGTKLEIKR
                                      237
```

```
174                        ---|------
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                           164
```

```
114                                   ---|------
IWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                      164
```

...

1 match found in sequence:
PCT-US01-19110-1771 ; Sequence 1771, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1771, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1771
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens

Found using '20_22_24' (spector091p.key)
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```
114  IWGRGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                        |------
                                                        164
174  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

234                                                      --|
     YPLTFGGGTKLEIKR
                 237
------
```

1 match found in sequence:
PCT-US01-19110-1778 ; Sequence 1778, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1778, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1778
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
...

```
114  VWGKGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                        |------
174  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                        164
234                                                      --|
     YPLTFGGGTKLEIKR
                 237
------
```

1 match found in sequence:
PCT-US01-19110-1882 ; Sequence 1882, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1882, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1882
LENGTH: 239
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
...

```
105  YWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                        |------
                                                        155
165  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

225                                                      --|
     YPLTFGGGTKLEIKR
                 228
------
```

1 match found in sequence:
PCT-US01-19110-1883 ; Sequence 1883, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1883, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1883
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
...

```
109  IWGGGTLATVSSGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                        |------
169  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                        159
229                                                      --|
     YPLTFGGGTKLEIKR
                 232
------
```

...

1 match found in sequence:
PCT-US01-1889-1889 ; Sequence 1889, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1889, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1889
LENGTH: 241
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
107
IWGRGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                |-------
                                                               157
167
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
227
   ---|
YPLTFGGGTKLEIKR
230
```
...

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1 match found in sequence:
PCT-US01-19110-1900 ; Sequence 1900, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1900, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1900
LENGTH: 245
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
111
IWGRGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                |-------
                                                               161
171
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
231
   ---|
YPLTFGGGTKLEIKR
234
```
...

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1 match found in sequence:
PCT-US01-19110-1901 ; Sequence 1901, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1901, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1901
LENGTH: 241
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
107
IWGRGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                |-------
                                                               157
167
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
227
   ---|
YPLTFGGGTKLEIKR
230
```

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1 match found in sequence:
PCT-US01-19110-1902 ; Sequence 1902, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1902, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21

Left column

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                                PRIOR FILING DATE: 2001-03-21
                                PRIOR APPLICATION NUMBER: 60/293,499
                                PRIOR FILING DATE: 2001-05-25
                                NUMBER OF SEQ ID NOS: 3239
                                SOFTWARE: Patentin Ver. 2.0
                                SEQ ID NO 1902
                                LENGTH: 245
                                TYPE: PRT
                                ORGANISM: Homo sapiens
                                Found using '20_22_24' (spector091p.key)

231  YPLTFGGGTKLEIKH
     234
                                                                  |-------|

171  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                                  161

111  LWGQGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL

1 match found in sequence:
PCT-US01-19110-1920 ; Sequence 1920, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1920, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1920
LENGTH: 246
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

112  IWGKGTTVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                  162
                                                                  |-------|

172  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

232  YPLTFGGGTKLEIKR
     235

                                                                  |---|

1 match found in sequence:
PCT-US01-19110-1922 ; Sequence 1922, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1922, Application PC/TUS0119110
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Right column

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GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1922
LENGTH: 239
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

225  YPLTFGGGTKLEIKR
     228

                                                                  |---|

165  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

105  YWGRGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                  155
                                                                  |-------|

1 match found in sequence:
PCT-US01-19110-1935 ; Sequence 1935, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1935, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1935
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

109  IWGKGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                  159
                                                                  |-------|
```

```
169    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                                 ---|

229    YPLTFGGGTKLEIKR
                     232

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1 match found in sequence:
PCT-US01-19110-1945 ; Sequence 1945, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1945, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1945
  LENGTH: 243
  TYPE: PRT
  ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

109    VWGQGTTVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                 |-------|
                                                                159

169    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

229    YPLTFGGGTKLEIKR
                     232

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1 match found in sequence:
PCT-US01-19110-1948 ; Sequence 1948, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 1948, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1948
  LENGTH: 241
  TYPE: PRT
  ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

227    YPLTFGGGTKLEIKR
                     230

167    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                                 |-------|

107    YWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                157

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1 match found in sequence:
PCT-US01-19110-2062 ; Sequence 2062, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 2062, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2062
  LENGTH: 246
  TYPE: PRT
  ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

232    YPLTFGGGTKLEIKR
                     235

172    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

112    IWGQGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                 |-------|
                                                                162

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1 match found in sequence:
PCT-US01-19110-2063 ; Sequence 2063, Application PC/TUS0119110
(from "/srch/paa/PCTUS_COMB.pep")
Sequence 2063, Application PC/TUS0119110
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523PCT
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CURRENT APPLICATION NUMBER: PCT/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
SEQ ID NO NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
NUMBER OF SEQ ID NOS: 3239
SEQ ID NO 2063
TYPE: PRI
LENGTH: 243
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

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109   YWGRTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTTCRASEGIYHWL
                                                              159
              |-----------------------------------------------
169   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
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229   YPLTFGGGTKLEIKR
      ---|
      232
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1 match found in sequence:
US-08-652-816-2 ; Sequence 2, Application US/08652816
(from "/srch/paa/US086_COMB.pep")
Sequence 2, Application US/0865281C6
GENERAL INFORMATION:
APPLICANT: Osbourn, JK
APPLICANT: Allen, DJ
APPLICANT: McCafferty, JG
TITLE OF INVENTION: Specific binding members, materials and
TITLE OF INVENTION: methods.
NUMBER OF SEQUENCES: 54
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/652,816
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.4
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.8
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.8
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
FILING DATE: 23-SEP-1992
PRIOR APPLICATION DATA:

APPLICATION NUMBER: GB 9525004.9
FILING DATE: 07-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9610824.6
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/02240
FILING DATE: 02-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/244,597
FILING DATE: 01-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/33308
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 108 amino acids
TYPE: amino acid
TOPOLOGY: linear
Found using '20_22_24' (spector091p.key)

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1    DIQMTQSPSSLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS
                                                              24
     ------------------------------------------------------------
61   RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIKR
     ----------------------------------------------|
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1 match found in sequence:
US-08-850-058-25 ; Sequence 25, Application US/08850058
(from "/srch/paa/US088_COMB.pep")
Sequence 25, Application US/08850058
GENERAL INFORMATION:
APPLICANT: ARATHOON, R.
APPLICANT: CARTER, P.J.
APPLICANT: MERCHANT, A.M.
APPLICANT: PRESTA, L.G.
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
TITLE OF INVENTION: HAVING HETEROMULTIMERIC AND COMMON COMPONENTS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/850,058
FILING DATE: 02-May-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Deirdre L.
REGISTRATION NUMBER: 36,487
REFERENCE/DOCKET NUMBER: P1099
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-2066
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear

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Found using '20_22_24' (spector091p.key)

  1   DIQMTQSPSTLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS
                                       |------------|
                                       24

 61   RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIK
                                                 |---|
                                                 97
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1 match found in sequence:
US-08-918-148-75 ; Sequence 75, Application US/0891814BA
(from "/srch/paa/US089_COMB.pep")
Sequence 75, Application US/0891814BA
GENERAL INFORMATION:
 APPLICANT: Adams, Camellia
 APPLICANT: W.
 APPLICANT: Carter, Paul J.
 APPLICANT: Fendly, Brian M.
 APPLICANT: Gurney, Austin L.
 TITLE OF INVENTION: Agonist Antibodies
 FILE REFERENCE: P0979
 CURRENT APPLICATION NUMBER: US/08/918,148A
 CURRENT FILING DATE: 1997-08-25
 NUMBER OF SEQ ID NOS: 79
 SEQ ID NO 75
 LENGTH: 245
 TYPE: PRT
 ORGANISM: artificial
Found using '20_22_24' (spector091p.key)

109   IWGQGTMVTVSSGGGGSGGGGSGGGGSDIVMTQSPSTLSASVGDRVAITCRASEGIYHWL
                                                            |-----
                                                            159

169   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGADFTLTISSLQPDDFATYYCQQYSN

229   YPLTFGGGTKLEVKRAA
      232
-----
1 match found in sequence:
US-08-918-148-76 ; Sequence 76, Application US/0891814BA
(from "/srch/paa/US089_COMB.pep")
Sequence 76, Application US/0891814BA
GENERAL INFORMATION:
 APPLICANT: Adams, Camellia
 APPLICANT: W.
 APPLICANT: Carter, Paul J.
 APPLICANT: Fendly, Brian M.
 APPLICANT: Gurney, Austin L.
 TITLE OF INVENTION: Agonist Antibodies
 FILE REFERENCE: P0979
 CURRENT APPLICATION NUMBER: US/08/918,148A
 CURRENT FILING DATE: 1997-08-25
 NUMBER OF SEQ ID NOS: 79
 SEQ ID NO 76
 LENGTH: 245
 TYPE: PRT
 ORGANISM: artificial
Found using '20_22_24' (spector091p.key)

109   VWGRGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                            |-----
                                                            159
...


169   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                      |----------
                                                      ...

229   YPLTFGGGTKLEILRAA
      232
-----
1 match found in sequence:
US-08-918-148-77 ; Sequence 77, Application US/0891814BA
(from "/srch/paa/US089_COMB.pep")
Sequence 77, Application US/0891814BA
GENERAL INFORMATION:
 APPLICANT: Adams, Camellia
 APPLICANT: W.
 APPLICANT: Carter, Paul J.
 APPLICANT: Fendly, Brian M.
 APPLICANT: Gurney, Austin L.
 TITLE OF INVENTION: Agonist Antibodies
 FILE REFERENCE: P0979
 CURRENT APPLICATION NUMBER: US/08/918,148A
 CURRENT FILING DATE: 1997-08-25
 NUMBER OF SEQ ID NOS: 79
 SEQ ID NO 77
 LENGTH: 244
 TYPE: PRT
 ORGANISM: artificial
Found using '20_22_24' (spector091p.key)

108   IWGQGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                            |-----
                                                            158

168   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

228   YPLTFGGGTELEIKRAA
      231
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1 match found in sequence:
US-08-918-148-78 ; Sequence 78, Application US/0891814BA
(from "/srch/paa/US089_COMB.pep")
Sequence 78, Application US/0891814BA
GENERAL INFORMATION:
 APPLICANT: Adams, Camellia
 APPLICANT: W.
 APPLICANT: Carter, Paul J.
 APPLICANT: Fendly, Brian M.
 APPLICANT: Gurney, Austin L.
 TITLE OF INVENTION: Agonist Antibodies
 FILE REFERENCE: P0979
 CURRENT APPLICATION NUMBER: US/08/918,148A
 CURRENT FILING DATE: 1997-08-25
 NUMBER OF SEQ ID NOS: 79
 SEQ ID NO 78
 LENGTH: 245
 TYPE: PRT
 ORGANISM: artificial
 FEATURE:
 NAME/KEY: unknown
 LOCATION: 208
 OTHER INFORMATION: unknown amino acid
Found using '20_22_24' (spector091p.key)
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109
VWGRGLLVTVSSGGGGSGGGGSGGGGSKIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                    159

169
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTXTISSLQPDDFATYYCQQYSN

229
YPLTFGGGTKLEIKRAA
232

                                               ----|
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1 match found in sequence:
US-09-070-166-25 ; Sequence 25, Application US/09070166
(from "/srch/paa/US090_COMB.pep")
Sequence 25, Application US/09070166
GENERAL INFORMATION:
APPLICANT: ARATHOON, R.
APPLICANT: CARTER, P.J.
APPLICANT: MERCHANT, A.M.
APPLICANT: PRESTA, L.G.
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
TITLE OF INVENTION: HAVING HETEROMULTIMERIC AND COMMON COMPONENTS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/070,166
FILING DATE: 30-Apr-1998
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Deirdre L.
REGISTRATION NUMBER: 36,487
REFERENCE/DOCKET NUMBER: P1099R1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-2066
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
Found using '20_22_24' (spector091p.key)

```
1
                    |----|
DIQMTQSPSTLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS
                    24

61
RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIK
                    97

                                               ----|
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1 match found in sequence:
US-09-070-416-25 ; Sequence 25, Application US/09070416
(from "/srch/paa/US090_COMB.pep")
Sequence 25, Application US/09070416
GENERAL INFORMATION:
APPLICANT: ARATHOON, R.
APPLICANT: CARTER, P.J.
APPLICANT: MERCHANT, A.M.
APPLICANT: PRESTA, L.G.
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
TITLE OF INVENTION: HAVING HETEROMULTIMERIC AND COMMON COMPONENTS
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/070,416
FILING DATE: 30-Apr-1998
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Conley, Deirdre L.
REGISTRATION NUMBER: 36,487
REFERENCE/DOCKET NUMBER: P1099R2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-2066
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
Found using '20_22_24' (spector091p.key)

```
1
                    |----|
DIQMTQSPSTLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS
                    24

61
RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIK
                    97

                                               ----|
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1 match found in sequence:
US-09-092-520-2 ; Sequence 2, Application US/09092520
(from "/srch/paa/US090_COMB.pep")
Sequence 2, Application US/09092520
GENERAL INFORMATION:
APPLICANT: Osbourn, Jane K
APPLICANT: Allen, Deborah J
APPLICANT: McCafferty, John
TITLE OF INVENTION: Specific binding members for human
TITLE OF INVENTION: carcinoembryonic antigen, materials and methods
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/092,520
FILING DATE: 05-JUN-1998
CLASSIFICATION: 432
PRIOR APPLICATION DATA:
CLASSIFICATION: 1/02, G01N 33/58, 33/68
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/03043
FILING DATE: 09-DEC-1996
PRIOR APPLICATION DATA:

Left column

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APPLICATION NUMBER: GB 9621295.6
    FILING DATE: 11-OCT-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9610824.6
    FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/652,816
    FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9525004.9
    FILING DATE: 07-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: David W Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/34697
TELECOMMUNICATION INFORMATION:
    TELEPHONE: (312) 474-6300
    TELEFAX:   (312) 474-0448
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
    LENGTH: 108 amino acids
    TYPE: amino acid
    TOPOLOGY: linear
Found using '20_22_24' (spector091p.key)

  1  DIQMTQSPSTLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS

 61  RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIKR
                                                    97
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1 match found in sequence:
US-09-373-403-25 ; Sequence 25, Application US/09373403
(from "/srch/paa/US093_COMB.pep")
Sequence 25, Application US/0937403
GENERAL INFORMATION:
APPLICANT: ARATHOON, W. R.
APPLICANT: CARTER, P.J.
APPLICANT: MERCHANT, A.M.
APPLICANT: PRESTA, L.G.
CURRENT APPLICATION NUMBER: US/09/373,403
CURRENT FILING DATE: 1999-08-12
PRIOR APPLICATION NUMBER: US 08/850,058
PRIOR FILING DATE: 1997-05-02
NUMBER OF SEQ ID NOS: 26
SEQ ID NO 25
    TYPE: PRT
    LENGTH: 107
    ORGANISM: Artificial sequence
    FEATURE:
    OTHER INFORMATION: Recombinant
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES HAVING
HETEROMULTIMERIC AND COMMON COMPONENTS

  1  DIQMTQSPSTLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS

 61  RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLIFGGGTKLEIK
                                                    97
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1 match found in sequence:
US-09-445-576-32 ; Sequence 32, Application US/09445576
(from "/srch/paa/US094_COMB.pep")
Sequence 32, Application US/0945576
GENERAL INFORMATION:
```

Right column

```
APPLICANT: Thogersen, Hans Christian
APPLICANT: Etzerodt, Michael
APPLICANT: Holtet, Thor Las
APPLICANT: Graversen, Niels Jonas Heilskov
APPLICANT: Kastrup, Jette Sandholm
APPLICANT: Nielsen, Bettina Bryde
APPLICANT: Larsen, Ingrid Kjoller
TITLE OF INVENTION: Trimerising module
FILE REFERENCE: THOGERSEN-1
CURRENT APPLICATION NUMBER: US/09/445,576
CURRENT FILING DATE: 2000-07-17
PRIOR APPLICATION NUMBER: PCT/DK98/00245
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: DK 0685/97
PRIOR FILING DATE: 1997-06-11
NUMBER OF SEQ ID NOS: 60
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 32
    TYPE: PRT
    LENGTH: 330
    ORGANISM: Artificial Sequence
    FEATURE:
    OTHER INFORMATION: Description of Artificial Sequence:H6FXscFv(CEA6)-TRIPB
Found using '20_22_24' (spector091p.key)

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128  VWQGGTMVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                   178
--------                                                       --------
188  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

--------                                                       --------
248  YPLTFGGGTKLEIKRAAAEQKLISEEDLNGAGTEPPTQKPKKIVNAKKDVVNTK
     251
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1 match found in sequence:
US-09-445-576-33 ; Sequence 33, Application US/09445576
(from "/srch/paa/US094_COMB.pep")
Sequence 33, Application US/0945576
GENERAL INFORMATION:
APPLICANT: Thogersen, Hans Christian
APPLICANT: Etzerodt, Michael
APPLICANT: Holtet, Thor Las
APPLICANT: Graversen, Niels Jonas Heilskov
APPLICANT: Kastrup, Jette Sandholm
APPLICANT: Nielsen, Bettina Bryde
APPLICANT: Larsen, Ingrid Kjoller
TITLE OF INVENTION: Trimerising module
FILE REFERENCE: THOGERSEN-1
CURRENT APPLICATION NUMBER: US/09/445,576
CURRENT FILING DATE: 2000-07-17
PRIOR APPLICATION NUMBER: PCT/DK98/00245
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: DK 0685/97
PRIOR FILING DATE: 1997-06-11
NUMBER OF SEQ ID NOS: 60
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 33
    TYPE: PRT
    LENGTH: 331
    ORGANISM: Artificial Sequence
    FEATURE:
    OTHER INFORMATION: Description of Artificial Sequence:H6FXTRIPB-scFv(CEA6)
Found using '20_22_24' (spector091p.key)

...
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```
181  VWGQGTMVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                    231

241  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

301  YPLTFGGGTKLEIKRAAAEQKLISEEDLNGA
     304
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3 matches found in sequence:
US-09-445-576-34 ; Sequence 34, Application US/09445576
(from "/srch/paa/US094_COMB.pep")
Sequence 34, Application US/0945576
GENERAL INFORMATION:
APPLICANT: Thøgersen, Hans Christian
APPLICANT: Etzerodt, Michael
APPLICANT: Holtet, Thor Las
APPLICANT: Graversen, Niels Jonas Heilskov
APPLICANT: Kastrup, Jette Sandholm
APPLICANT: Nielsen, Bettina Bryde
APPLICANT: Larsen, Ingrid Kjøller
TITLE OF INVENTION: Trimerising module
FILE REFERENCE: THØGERSEN =1
CURRENT APPLICATION NUMBER: US/09/445,576
CURRENT FILING DATE: 2000-07-17
PRIOR APPLICATION NUMBER: PCT/DK98/00245
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: DK 0685/97
PRIOR FILING DATE: 1997-06-11
NUMBER OF SEQ ID NOS: 60
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 34
LENGTH: 592
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Trimerising module
Found using '20_22_24' (spector09lp.key)

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128  VWGQGTMVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                    178

188  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDFATYYCQQYSN

248  YPLTFGGGTKLEIKRAAAEQKLISEEDLNGAGTEPPTQKPKKIVNAKKDVVNTKMFEELK
     251

308  SRLDTLAQEVALLKEQQALQTGSQVQLQQSGAEVKKPGSSVKVSCKASGGTFSNSPINWL

368  RQAPGQGLEWMGSIIPSFGTANYAQKFQGRLTITADESTSTAYMELSSLRSEDTAVYYCA
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```
428  GRSHNYELYYYMDVWGQGTMVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRV

488  TITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQ
                                                                492

548  PDDFATYYCQQYSNYPLTFGGGTKLEIKRAAAEQKLISEEDLNGA
                                                565  565
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1 found in sequence:
US-09-880-748-918 ; Sequence 918, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 918, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BlyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 918
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector09lp.key)

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115  VWGQGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                    165

175  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

235  YPLTFGGGTKLEIK
     238
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1 match found in sequence:
US-09-748-922 ; Sequence 922, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 922, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BlyS
FILE REFERENCE: PF523

CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 922
LENGTH: 251
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

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237   YPLTFGGGTKLEIKR
      240

      |------|
177   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
...

      |------|
117   VWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
      167
...
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1 match found in sequence:
US-09-880-748-926 ; Sequence 926, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 926, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 926
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens

```
      |------------|
115   VWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
      165

175   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
```

```
235   YPLTFGGGTKLEIKR
      238

      |------|
176   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
...

      |------|
116   VWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
      166
...
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1 match found in sequence:
US-09-880-748-932 ; Sequence 932, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 932, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 932
LENGTH: 250
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
236   YPLTFGGGTKLEIKR
      239
```

----

1 match found in sequence:
US-09-880-748-969 ; Sequence 969, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 969, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 969
LENGTH: 247
TYPE: PRT

ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

113

YWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                          163

173

AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

233

---|
YPLTFGGGTKLEIKR
236

----

1 match found in sequence:
US-09-880-748-1008 ; Sequence 1008, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1008, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1008
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

114

VWGQGTTVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDKVTITCRASEGIYHWL
                                                          164

174

AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

234

---|
YPLTFGGGTKLEIKR
237

----

1 match found in sequence:
US-09-880-748-1177 ; Sequence 1177, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1177, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15

PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1177
LENGTH: 247
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

113

VWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                          163

173

AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

233

---|
YPLTFGGGTKLEIKR
236

----

1 match found in sequence:
US-09-880-748-1188 ; Sequence 1188, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1188, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1188
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

115

GWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                          165

175

AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

235

---|
YPLTFGGGTKLEIKR
238

```
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1 found in sequence:
US-09-880-748-1320 ; Sequence 1320, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1320, Application US/09880748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1320
LENGTH: 251
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
...

117  VWGRGTTVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                    |---------
                                                           167

177  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

237  YPLTFGGGTKLEIKR
        ---|
        240

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1 match found in sequence:
US-09-880-748-1421 ; Sequence 1421, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1421, Application US/09880748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1421
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
...
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114  YWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTMSASIGDRVTITCRASEGIYHWL
                                                    |---------
                                                           164

174  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

234  YPLTFGGGTKLEIKR
        ---|
        237

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1 match found in sequence:
US-09-880-748-1603 ; Sequence 1603, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1603, Application US/09880748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1603
LENGTH: 255
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
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121  VWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                    |---------
                                                           171

181  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

241  YPLTFGGGTKLEIKR
        ---|
        244

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1 match found in sequence:
US-09-880-748-1700 ; Sequence 1700, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1700, Application US/09880748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
```

Left column

```
SEQ ID NO 1700
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
SOFTWARE: PatentIn Ver. 2.0
NUMBER OF SEQ ID NOS: 3239
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/212,210
CURRENT FILING DATE: 2001-06-15
CURRENT APPLICATION NUMBER: US/09/880,748
FILE REFERENCE: PF523
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLys
APPLICANT: Ruben et al.
GENERAL INFORMATION:
Sequence 1771, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
US-09-880-748-1771 ; Sequence 1771, Application US/0980748
1 match found in sequence:
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...

234  YPLTFGGGTKLEIKR
     237

174  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

114  IWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                             |-------
                                                             164

SEQ ID NO 1771
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
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Right column

```
Sequence 1778, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1778
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

114  VWGKGTMVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                             |-------
                                                             164

174  AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

234  YPLTFGGGTKLEIKR
     237
---------

1 match found in sequence:
US-09-880-748-1882 ; Sequence 1882, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1882, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1882
LENGTH: 239
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

105  YWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                             |-------
                                                             155
```

165
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
-----|
225
YPLTFGGGTKLEIKR
228

1 match found in sequence:
US-09-880-748-1883 ; Sequence 1883, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1883, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1883
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

109
IWGQGTLATVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
159
-----|
169
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

229
YPLTFGGGTKLEIKR
232
-----|

1 match found in sequence:
US-09-880-748-1889 ; Sequence 1889, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1889, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25

NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1889
LENGTH: 241
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

227
YPLTFGGGTKLEIKR
230

167
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

107
IWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
157
-----|

1 match found in sequence:
US-09-880-748-1900 ; Sequence 1900, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1900, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
SEQ ID NO 1900
LENGTH: 245
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

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111
IWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
161
-----|
171
AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

231
YPLTFGGGTKLEIKR
234
-----|

1 match found in sequence:
US-09-880-748-1901 ; Sequence 1901, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1901, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS

FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1901
LENGTH: 241
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
227    ---|
       YPLTFGGGTKLEIKR
       230
```

```
167    ------------------------------------------------------------
       AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                                  157
```

```
107    IWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                  157
```

...

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1 match found in sequence:
US-09-880-748-1902 ; Sequence 1902, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1902, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1902
LENGTH: 245
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

```
111    LWGQGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                  161
171    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
```

```
231    ---|
       YPLTFGGGTKLEIKH
       234
```

----
1 match found in sequence:
US-09-880-748-1920 ; Sequence 1920, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1920, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1920
LENGTH: 246
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)

...

```
112    IWGKGTTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                                   162
172    AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
```

```
232    ---|
       YPLTFGGGTKLEIKR
       235
```

----
1 match found in sequence:
US-09-880-748-1922 ; Sequence 1922, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1922, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1922
LENGTH: 239

```
        TYPE: PRT
        ORGANISM: Homo sapiens
        Found using '20_22_24' (spector091p.key)
...

225

165   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                            155
105   YWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                       --------|
      YPLTFGGGTKLEIKR
                  228
---|
1 match found in sequence:
US-09-880-748-1935 ; Sequence 1935, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1935, Application US/09880748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1935
LENGTH: 243
        TYPE: PRT
        ORGANISM: Homo sapiens
        Found using '20_22_24' (spector091p.key)
109   IWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                            159
...

169   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                       --------|
229,  YPLTFGGGTKLEIKR
                  232
---|
```

```
        PRIOR FILING DATE: 2000-06-15
        PRIOR APPLICATION NUMBER: 60/240,816
        PRIOR FILING DATE: 2000-10-17
        PRIOR APPLICATION NUMBER: 60/276,248
        PRIOR FILING DATE: 2001-03-16
        PRIOR APPLICATION NUMBER: 60/277,379
        PRIOR FILING DATE: 2001-03-21
        PRIOR APPLICATION NUMBER: 60/293,499
        PRIOR FILING DATE: 2001-05-25
        NUMBER OF SEQ ID NOS: 3239
        SOFTWARE: Patentin Ver. 2.0
        SEQ ID NO 1945
        LENGTH: 243
        TYPE: PRT
        ORGANISM: Homo sapiens
        Found using '20_22_24' (spector091p.key)
229   YPLTFGGGTKLEIKR
                  232
---|
169   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                       --------|
109   VWGQGTIVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                            159
...
1 match found in sequence:
US-09-880-748-1948 ; Sequence 1948, Application US/09880748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 1948, Application US/09880748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1948
LENGTH: 241
        TYPE: PRT
        ORGANISM: Homo sapiens
        Found using '20_22_24' (spector091p.key)
107   YWGKGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                            157
...
167   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN
                                                       --------|
227   YPLTFGGGTKLETER
                  230
```

```
------
1 match found in sequence:
US-09-880-748-2062 ; Sequence 2062, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 2062, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2062
LENGTH: 246
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
...

232      ---|
         YPLTFGGGTKLEIKR
              235

172   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

112   IWGQGTMVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                          162
                                                       |-----------

------
1 match found in sequence:
US-09-880-748-2063 ; Sequence 2063, Application US/0980748
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 2063, Application US/0980748
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2063
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
Found using '20_22_24' (spector091p.key)
```

```
...

229      ---|
         YPLTFGGGTKLEIKR
              232

169   AWYQQKPGKAPKLLIYKASSLASGAPSRFSGSGSGTDFTLTISSLQPDDFATYYCQQYSN

109   YWGRGTLVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCRASEGIYHWL
                                                          159
                                                       |-----------

------
1 match found in sequence:
US-09-863-693-25 ; Sequence 25, Application US/09863693
(from "/srch/paa/US09_NEW_COMB.pep")
Sequence 25, Application US/0980693
GENERAL INFORMATION:
APPLICANT: ARATHOON, R.
APPLICANT: CARTER, P.J.
         MERCHANT, A.M.
         PRESTA, L.G.
TITLE OF INVENTION: METHOD FOR MAKING MULTISPECIFIC ANTIBODIES
         HAVING HETEROMULTIMERIC AND COMMON COMPONENTS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
   ADDRESSEE: Genentech, Inc.
   STREET: 1 DNA Way
   CITY: South San Francisco
   STATE: California
   COUNTRY: USA
   ZIP: 94080
COMPUTER READABLE FORM:
   MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
   COMPUTER: IBM PC compatible
   OPERATING SYSTEM: PC-DOS/MS-DOS
   SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
   APPLICATION NUMBER: US/09/863,693
   FILING DATE: 23-May-2001
   CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
   APPLICATION NUMBER: 09/070,166
   FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
   NAME: Conley, Deirdre L.
   REGISTRATION NUMBER: 36,487
   REFERENCE/DOCKET NUMBER: P1099R1
TELECOMMUNICATION INFORMATION:
   TELEPHONE: 650/225-2066
   TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
   LENGTH: 107 amino acids
   TYPE: Amino Acid
   TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 25:
Found using '20_22_24' (spector091p.key)

1     DIQMTQSPSTLSASIGDRVTITCRASEGIYHWLAWYQQKPGKAPKLLIYKASSLASGAPS
                     24
                  |-----------

61    RFSGSGSGTDFTLTISSLQPDDFATYYCQQYSNYPLTFGGGTKLEIK
                                                  97
                                               |-----------

Times:              -- Search Statistics --

                 CPU              Total Elapsed
```

00:21:59.04   00:59:29.00

Number of sequences searched: 2975556
Number of sequence hits: 68
Number of separate matches: 70
Number of sequence hits saved: 0

!!SEQUENCE_LIST 1.0
! FINDPATTERNS on PIR:* allowing 0 mismatches
!

1 RASEGIYHWLAX{}KASSLASX{}QQYSNYPLT

September 4, 2

```
!!SEQUENCE_LIST 1.0
! FINDPATTERNS on Swiss-Prot:* allowing 0 mismatches
!

    1 RASEGIYHWLAX{}KASSLASX{}QQYSNYPLT
```

```
!!SEQUENCE_LIST 1.0
! FINDPATTERNS on EST:* allowing 0 mismatches
!
    1 AGCCATAACATGAACN[]TCCATTAGTAGTAGTAGTTACATATACTACGCAGACTCAGTGAAGGGCCGATTCAC
```

!!SEQUENCE_LIST 1.0
! FINDPATTERNS on GenEMBL:* allowing 0 mismatches
!

1　AGCCATAACATGAACN[]TCCATTAGTAGTAGTAGTAGTAGTTACATATACTACGCAGACTCAGTGAAGGGCCGATTCAG

```
> O <
OI IO   IntelliGenetics
> O <
```

Quest - Quick User-directed Expression Search Tool
Release 5.4

-- Outline of search "36_38_40iss" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector091n.key":
36_38_40 (NA) ID 36_38_40 NA preliminary pattern
       followed by
1   agccataacatgaac
2   any number of any character
2   tccattagtagtagttacatatactacgcagactcagtgaaggccgattcaccatctcc
2   any number of any character
2   gatcgcgggagtaccggtatggacgtc

Selected data banks and files:

Data bank : Issued_NA , all entries

-- Output Parameters --

Format Options: File Options:
Nucleic acid code matching   Exact   Indirect file   No
Find non-matching hits only No   Sequence or key file   No
Report key used   Yes   List of hits   Yes
Note position of hit   Yes   Hit display   Yes
Display full annotations   Yes   Name and annotations   Yes
Sequence context   50

-- Run Parameters --

Run mode   Batch
Time to start comparison   now
Notify at end of run   No

No hits found.

-- Search Statistics --

Times: CPU   Total Elapsed
                00:06:48.06   00:16:47.00

Number of sequences searched: 325093
Number of sequence hits: 0
Number of separate matches: 0
Number of sequence hits saved: 0

!!SEQUENCE_LIST 1.0
! FINDPATTERNS on geneseqn:* allowing 0 mismatches
!

    1 AGCCATAACATGAACN[ ]TCCATTAGTAGTAGTAGTTACATATACTACGGCAGACTCAGTGAAGGGCCGATTCAC

```
> O <
O | O   IntelliGenetics
> O <
```

Quest - Quick User-directed Expression Search Tool
Release 5.4

-- Outline of search "36_38_40pen" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector09in.key":
  36_38_40 (NA) ID 36_38_40 NA preliminary pattern
  1   followed by
  2   agccataacatgaac
  2   any number of any character
  2   tccattagtagtagttacatatactacgcaggactcagtgaaggcccgattcaccatctcc
  2   any number of any character
  2   gatcgcgggagtaccggtatggacgtc

Selected data banks and files:

Data bank : Pending_NA , all entries

-- Output Parameters --

                                                    File Options:
Format Options: Indirect file   No
Nucleic acid code matching   Exact   Sequence or key file   No
Find non-matching hits only   No   List of hits   Yes
Report key used   Yes   Hit display   Yes
Note position of hit   Yes   Name and annotations   Yes
Display full annotations   Yes
Sequence context   50

-- Run Parameters --

Run mode   Batch
Time to start comparison now
Notify at end of run   No   No

No hits found.

-- Search Statistics --

Times: CPU   Total Elapsed
                  15:11:54.08   06:50:19.00

Number of sequences searched: 15472368
Number of sequence hits: 0
Number of separate matches: 0
Number of sequence hits saved: 0
```

```
> O <
OI |O  Intelligenetics
> O <

Quest - Quick User-directed Expression Search Tool
Release 5.4

                        -- Outline of search "37_39_41" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector091p.key":
37_39_41 (AA) ID 37_39_41 AA preliminary pattern
followed by
1     shnnn
2     any number of any character
2     isssssylyyadsvkgrftis
2     any number of any character
2     drgstgmdv

Selected files:
File : 37_39_4lags.pep

                          -- Output Parameters --

Format Options:                              File Options:
Nucleic acid code matching    Exact          Indirect file          No
Find non-matching hits only   No             Sequence or key file   No
Report key used               Yes            List of hits           Yes
Note position of hit          Yes            Hit display            Yes
Display full annotations      Yes            Name and annotations   Yes
Sequence context              50

Run mode                      Batch
Time to start comparison .    now
Notify at end of run          No

                          -- Run Parameters --

1 match found in sequence:
aay06717; Antibody 12B5 single chain Fv (scFv) fragment.
(from "37_39_4lags.pep")
TOIG of: aay06717  Check: 1357  from: 1  to: 279
```

```
ID   AAY06717 standard; Protein; 245 AA.
XX
AC   AAY06717;
XX
DT . 17-JUN-1999 (first entry)
XX
DE   Antibody 12B5 single chain Fv (scFv) fragment.
XX
KW   Agonist antibody; thrombopoietin receptor; TPO-R; thrombopoietin; DIC;
KW   megakaryocyte; platelet; immunological; hematopoietic; thrombocytopenia;
KW   bone marrow hypoplasia; disseminated intravascular coagulation; anemia;
KW   myelodysplasia; myelotoxic chemotherapy; leukaemia; tumour; MuSK; CDR;
KW   neuromuscular muscular dystrophy; complementarity determining region.
XX
OS   Homo sapiens.
XX
FH   Key          Location/Qualifiers
FT   Misc-difference 208
FT                  /note= "unspecified"
XX
PN   WO9910494-A2.
XX
PD   04-MAR-1999.
XX
PF   21-AUG-1998;  98WO-US17364.
```

```
PR   25-AUG-1997;  97US-0918148.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Adams CW, Carter PJ, Fendly BM, Gurney AL;
XX
DR   WPI; 1999-204666/17.
XX
PT   New thrombopoietin receptor agonist antibodies - useful for
PT   treating immunological or hematological disorders
XX
PS   Disclosure; Fig 1; 86pp; English.
XX
CC   The invention relates to an agonist antibody (Ab) which binds to a
CC   thrombopoietin receptor (TPO-R). The antibodies which bind the TPO-R can
CC   be used in the same way and for the same indications as thrombopoietin
CC   (TPO). They can stimulate proliferation, differentiation or growth of
CC   megakaryocytes. They may also be able to stimulate megakaryocytes to
CC   increase platelet production. They can be used for treating
CC   immunological or hematopoietic disorders, especially thrombocytopenia.
CC   Thrombocytopenia -associated bone marrow hypoplasia (e.g. aplastic anemia
CC   following chemotherapy or bone marrow transplant) may be effectively
CC   treated with the antibody compounds as well as disorders such as
CC   disseminated intravascular coagulation (DIC), immune thrombocytopenia
CC   (HIV-induced and non HIV-induced), chronic idiopathic thrombocytopenia,
CC   congenital thrombocytopenia, thrombotic thrombocytopenia and
CC   myelodysplasia. They can also be used in e.g. myelotoxic chemotherapy for
CC   treatment of solid tumours or leukaemia, myeloablative chemotherapy for
CC   autologous or allogeneic bone marrow transplant, myelodysplasia, and immune
CC   idiopathic aplastic anemia, congenital thrombocytopenia, and
CC   thrombocytopenia. The antibodies which bind to the MuSK receptor can be
CC   used for improving neuromuscular function in a patient, e.g in muscular
CC   dystrophy. The products can also be used for detection and diagnosis. The
CC   antibodies have a longer half-life than the natural ligand for the TPO-R.
CC   Sequences AAY06713-Y06718 represent single chain Fv (scFv) fragments of
CC   various antibodies.
XX
SQ   Sequence   245 AA;

AAY06717  Length: 279  September 10, 2001 07:34  Type: P  Check: 1357 ..
Found using '37_39_41' (spector091p.key)

...

17   LKMFPSTWYYSQOTHERSRMAQVOLVESGGGLVKPGGSLRLSCAASGFTFSSHNMWVRQA
                                                                 |-------
                                                                 67

77   PGKGLEWVSSISSSSYIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCARDR

...

137  GSTGMDVWGRGTLVTVSSGGGGSGGGGSGGGGSDIQMTQSPSTLSASIGDRVTITCR
     ------------|
              143

                         -- Search Statistics --

Times:                       CPU              Total Elapsed
                             00:00:00.00      00:00:00.00

Number of sequences searched:          1
Number of sequence hits:               1
Number of separate matches:            1
Number of sequence hits saved:         0
```

```
> O <
O| |O    IntelliGenetics
> O <
```

Quest - Quick User-directed Expression Search Tool
Release 5.4

-- Outline of search "37_39_41iss" --

Selected search type is key against sequence data banks or files.
Selected search scope is Sequence.
Selected sequence key from "spector091p.key":
37_39_41 (AA) ID 37_39_41 AA preliminary pattern
       followed by
1   shnmn
2   any number of any character
2   issssyiyyadsvkgrftis
2   any number of any character
2   drgstgmdv

Selected data banks and files:

       Data bank : Issued_AA , all entries

                          -- Output Parameters --

Format Options: File Options:
  Nucleic acid code matching Exact   Indirect file   No
  Find non-matching hits only No   Sequence or key file   No
  Report key used   Yes   List of hits   Yes
  Note position of hit   Yes   Hit display   Yes
  Display full annotations   Yes   Name and annotations   Yes
  Sequence context   50

                          -- Run Parameters --

  Run mode   Batch
  Time to start comparison   now
  Notify at end of run   No

                          -- Search Statistics --

Times: CPU   Total Elapsed
                          00:02:03.08   00:06:38.00

No hits found.

  Number of sequences searched: 197390
  Number of sequence hits: 0
  Number of separate matches: 0
  Number of sequence hits saved: 0
```

```
 > o <
 o| |o   Intelligenetics
 > o <

Quest - Quick User-directed Expression Search Tool
Release 5.4

                    -- Outline of search "37_39_41pen" --

Selected search type is key against sequence data banks or files.
Selected scope is Sequence.
Selected sequence key from "spector09lp.key":
37_39_41 (AA) ID 37_39_41 AA preliminary pattern
1    followed by
     shnnn
2    any number of any character
2    isssssylyyadsvkgrftis
2    any number of any character
2    drgstgmdv

Selected data banks and files:

Data bank : Pending_AA , all entries

                    -- Output Parameters --

Format Options:                         File Options:
   Nucleic acid code matching   Exact      Indirect file          No
   Find non-matching hits only  No         Sequence or key file   Yes
   Report key used              Yes        List of hits           Yes
   Note position of hit         Yes        Hit display            Yes
   Display full annotations     Yes        Name and annotations   Yes
   Sequence context             50

                    -- Run Parameters --

Run mode                        Batch
   Time to start comparison     now
   Notify at end of run         No

------
1 match found in sequence:
US-08-918-148-78 ; Sequence 78, Application US/0891848A
(from '/srch/paa/US089_COMB.pep")
Sequence 78, Application US/0891848A
GENERAL INFORMATION:
APPLICANT: Adams, Camellia
APPLICANT: W.
APPLICANT: Carter, Paul J.
APPLICANT: Fendly, Brian M.
APPLICANT: Gurney, Austin L.
TITLE OF INVENTION: Agonist Antibodies
FILE REFERENCE: P0979
CURRENT APPLICATION NUMBER: US/08/918,148A
CURRENT FILING DATE: 1997-08-25
NUMBER OF SEQ ID NOS: 79
SEQ ID NO 78
   LENGTH: 245
   TYPE: PRT
   ORGANISM: artificial
   FEATURE:
   NAME/KEY: unknown
   LOCATION: 208
   OTHER INFORMATION: unknown amino acid
Found using '37_39_41' (spector09lp.key)
```

```
                    -- Search Statistics --

Times:          CPU                 Total Elapsed
             00:21:48.05            01:02:25.00
...

Number of sequences searched:      2979662
Number of sequence hits:                 1
Number of separate matches:              1
Number of sequence hits saved:           0
```

```
121      GGGGSGGGGGGSGGGGGGSKIQMTQSPSTLSASIGDRVTITCR

109
```

```
1        MAQVQLVESGGGILVKPGGSLRLSCAASGFTFSSHNMNWVRQAPGKGLEWVSSISSSSSYI
                                   33

61       YYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCARDRGSTGMDVWGRGTLVTVSS
```

!!SEQUENCE_LIST 1.0
! FINDPATTERNS on PIR:* allowing 0 mismatches
!

1   1 SHMMNX[]]ISSSSSYIYADSVKGRFTISX[]DRGSTGMDV

Septem

!!SEQUENCE_LIST 1.0
! FINDPATTERNS on Swiss-Prot:* allowing 0 mismatches

1

    1 SHNMNX{}ISSSSSYIYADSVKGRFTISX{}DRGSTGMDV

Septem